



Table of Contents

Section	Page
Find it Fast	2
RF Solid State	10
Universal Series	25
Microwave	31
Solid State Pulsed	44
тwт	56
Systems	73
Antennas	83
Accessories	102
Contact	126



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Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	S	1
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

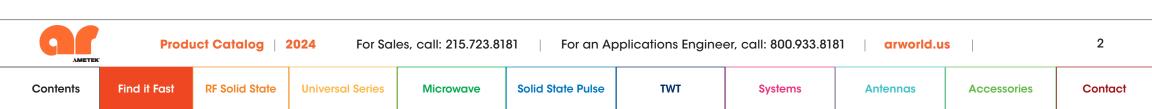
Total Solutions

From complete testing systems to software, AR is your one-stop for RF and EMC testing. Our testing solutions are built to last and come with the product quality and high-level support customers can expect from AR.

Throughout this catalog, you will find everything you need for RF and EMC testing. Use the table below to quickly find some of our more popular items.

#	Component	Page
1	Amplifiers	10
2	Antennas	83
3	Test Systems	73
4	Field Measuring Equipment	117
5	EMC Test Software	122
6	EMC & RF Test Accessories	102
7	Positioning Equipment	126





Amplifiers

Frequency	Power (W)	Model Number	Category	Page
4 kHz – 400 MHz	100	100A400AM20	RF Solid State	11
10 kHz – 100 MHz	150	150A100D	RF Solid State	11
10 kHz – 225 MHz	1200	1200A225B	RF Solid State	12
10 kHz – 225 MHz	2500	2500A225C	RF Solid State	12
10 kHz – 225 MHz	5000	5000A225C	RF Solid State	13
10 kHz – 225 MHz	10000	10000A225B	RF Solid State	13
10 kHz – 250 MHz	25	25A250B	RF Solid State	14
10 kHz – 250 MHz	50	50A250	RF Solid State	14
10 kHz – 250 MHz	125	125A250	RF Solid State	15
10 kHz – 250 MHz	500	500A250D	RF Solid State	15
10 kHz – 400 MHz	100	100A400A	RF Solid State	16
10 kHz – 400 MHz	175	175A400	RF Solid State	16
10 kHz – 400 MHz	250	250A400	RF Solid State	17
10 kHz – 400 MHz	350	350A400	RF Solid State	17
10 kHz – 400 MHz	600	600A400	RF Solid State	18
10 kHz- 400 MHz	1000	1000A400	RF Solid State	18
10 kHz – 1000 MHz	10	10U1000	Universal	27



Frequency	Power (W)	Model Number	Category	Page
10 kHz – 1000 MHz	25	25U1000	Universal	28
10 kHz – 1000 MHz	50	50U1000	Universal	28
10 kHz – 1000 MHz	100	100U1000A	Universal	29
10 kHz – 1000 MHz	250	250U1000A	Universal	29
50 -1000 MHz	50	50W1000D	RF Solid State	19
80 – 1000 MHz	125	125W1000A	RF Solid State	19
80 – 1000 MHz	150	150W1000B	RF Solid State	20
80 – 1000 MHz	250	250W1000C	RF Solid State	20
80 – 1000 MHz	500	500W1000C	RF Solid State	21
80 – 1000 MHz	800	800W1000	RF Solid State	21
80 – 1000 MHz	1000	1000W1000H	RF Solid State	22
80 – 1000 MHz	2000	2000W1000E	RF Solid State	22
80 – 1000 MHz	3000	3000W1000B	RF Solid State	23
80 – 1000 MHz	4000	4000W1000B	RF Solid State	23
80 – 1000 MHz	6000	6000W1000	RF Solid State	24
80 – 1000 MHz	10000	10000W1000A	RF Solid State	24
1 – 6 GHz	30	30\$1G6C	Microwave	33
1 – 6 GHz	75	75\$1G6C	Microwave	34



Amplifiers

Frequency	Power (W)	Model Number	Category	Page
1 – 6 GHz	125	125\$1G6C	Microwave	35
1 – 6 GHz	250	250\$1G6C	Microwave	36
1 – 6 GHz	500	500\$1G6C	Microwave	37
1 – 6 GHz	750	750\$1G6C	Microwave	38
1 – 6 GHz	1000	1000\$1G6C	Microwave	38
0.8 - 6 GHz	30	AR-G030	Microwave	38
0.8 – 6 GHz	60	AR-G060	Microwave	39
0.8 – 6 GHz	120	AR-G120	Microwave	39
0.8 – 6 GHz	200	AR-G200	Microwave	40
0.8 – 6 GHz	400	AR-G400	Microwave	40
0.8 – 2.5 GHz	1000	1000SP0z8G2z5	Pulse	45
0.8 – 2.5 GHz	2000	2000SP0z8G2z5	Pulse	45
0.8 – 2.5 GHz	4000	4000SP0z8G2z5	Pulse	46
0.8 – 2.5 GHz	8000	8000SP0z8G2z5	Pulse	46
1 – 2 GHz	1300	1300SP1G2	Pulse	47
1 – 2 GHz	2000	2000SP1G2	Pulse	47
1 – 2 GHz	8000	8000SP1G2	Pulse	48
1 - 2.8 GHz	2000	2000\$1G2z8	Microwave	39
1 - 2.5 GHz	125	125\$1G2z5	Microwave	39
1 - 2.5 GHz	250	250\$1G2z5B	Microwave	40
1 - 2.5 GHz	500	500\$1G2z5A	Microwave	40
1 - 2.5 GHz	1000	1000\$1G2z5B	Microwave	41

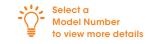


Frequency	Power (W)	Model Number	Category	Page
1.2 - 1.4 GHz	4000	4000SP1z2G1z4	Pulse	49
1.2 - 1.4 GHz	6000	6000SP1z2G1z4	Pulse	49
2 – 4 GHz	1000	1000SP2G4	Pulse	51
2 – 4 GHz	2000	2000SP2G4	Pulse	52
2 - 4 GHz	4000	4000TP2G4	тwт	66
2 - 4 GHz	5000	5000SP2G4	Pulse	52
2 – 4 GHz	7000	7000SP2G4	Pulse	53
2 – 4 GHz	6900	6900TP2G4	тwт	67
2 – 4 GHz	10000	10000SP2G4	Pulse	53
2.5 - 7.5 GHz	300	300T2G8	тwт	57
2.5 - 7.5 GHz	500	500T2G8	тwт	57
2.5 - 7.5 GHz	1000	1000T2G8B	тwт	60

Аметек		Product Catalog 2024 For Sales, call: 215.723.8181 For an Applications Engineer, call: 800.933.818			81 <mark>arworld.u</mark>	s	4			
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	TWT	Systems	Antennas	Accessories	Contact

Amplifiers

Frequency	Power (W)	Model Number	Category	Page
2.5 - 7.5 GHz	1700	1500T2G8A	тwт	58
2.5 - 7.5 GHz	2000	2000TP2G8B	тwт	67
2.7 - 3.1 GHz	4000	4000SP2z7G3z1	Pulse	54
2.7 - 3.1 GHz	8000	8000SP2z7G3z1	Pulese	54
2.7 - 3.1 GHz	8000	8000TP2z7G3z1	тwт	68
2.7 - 3.1 GHz	12000	12000SP2z7G3z1	Pulse	55
4 - 8 GHz	200	200T4G8	тwт	59
4 - 8 GHz	4000	4000TP4G8	тwт	68
4 - 8 GHz	7400	7400TP4G8	тwт	69
1.2 - 1.4 GHz 2.7 - 3.1 GHz	1500/1000	1500/1000SP1z2G3z1	Pulse	55
6 - 18 GHz	20	20\$6G18C	Microwave	41
6 - 18 GHz	40	40\$6G18C	Microwave	42
6 - 18 GHz	75	75S6G18C	Microwave	42
6 - 18 GHz	125	125\$6G18C	Microwave	43
6 - 18 GHz	250	250\$6G18C	Microwave	43
6 - 18 GHz	250	250T6G18	тwт	59
6 - 18 GHz	500	500T6G18	тwт	60
7.5 - 18 GHz	250	250T8G18	тwт	60
7.5 - 18 GHz	500	500T8G18	тwт	61
7.5 - 18 GHz	1000	1000T8G18B	тwт	61
7.5 - 18 GHz	1000	1000TP8G18	тwт	69
7.5 - 18 GHz	1500	1500T8G18	тwт	62



Frequency	Power (W)	Model Number	Category	Page
7.5 - 18 GHz	2000	2000TP8G18	тwт	70
8 - 12 GHz	4000	4000TP8G12	тwт	70
8 – 12 GHz	8300	8300TP8G12	тwт	71
8 - 12 GHz	20000	20000TP8G12	тwт	71
12 - 18 GHz	3000	3000TP12G18	тwт	72
12 - 18 GHz	5700	5700TP12G18	тwт	72
18 - 26.5 GHz	40	40T18G26A	тwт	62
18 - 26.5 GHz	130	130T18G26z5B	тwт	63
18 - 26.5 GHz	200	200T18G26z5A	тwт	63
26.5 - 40 GHz	40	40T26G40A	тwт	64
26.5 - 40 GHz	130	130T26z5G40B	тwт	64
26.5 - 40 GHz	200	200T26z5G40A	тwт	65
40 - 50 GHz	70	70T40G50	тwт	65
40 - 50 GHz	100	100T40G50	тwт	66



С		uct Catalog 3	2024 For Sal	For Sales, call: 215.723.8181 For an Applications Engineer, call: 800.933.8181				81 arworld.u	S	5
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Systems

Description	Model Number	Page						
Multi-Tone Test Systems								
Multi-Tone RF Radiated Immunity System, 2 Tones	MT2IEC10V3M	81						
Multi-Tone RF Radiated Immunity System, 4 Tones	MT4IEC10V3M	82						

Multi-Tone Testing

The MT4IEC10V3M (Multi-Tone Test System) is a state-of-the-art system that is designed to run RF Radiated Immunity tests faster than ever before. By testing multiple frequencies (tones) at once, test times are reduced by a factor equivalent to the number of tones selected. The number of tones is only limited by the number of signal generators and the size of the amplifier used with the system.





Find it Fast Table

AR Predefined Test Systems Make Testing Easy

We have complete standard and custom test systems that perform entire RF & EMC tests with just the press of a few buttons. Everything you need – amplifiers, antennas, couplers, signal generators, system controllers, receivers, and more, along with the software to control it – all in one comprehensive system.

Your System, Your Way

AR is here for you at each step to ensure that the system design, integration, and support of your test system complies with your goals. AR has designed hundreds of EMC systems that vary in scope from a single, less complex rack of equipment for low field strength IEC 61000-4-3 testing to MIL-STD-461/464 test systems. Spanning from DC - 50 GHz, producing field strengths in excess of 4,000 V/m and everything in between AR Systems are in compliance with military, aviation, commercial and automotive test standards.

AR's Predefined Systems are designed to meet the minimum requirements of several of today's common EMC test standards. Depending on your needs, these systems can be used as is or tailored and customized to meet your specific requirements. Additionally, AR could also design a system that meets your needs from scratch.

AR Quality Backed by AR Protection

One of the added benefits of an AR test system is peace of mind. Every product in your AR test system is designed and built to the highest quality standards and backed by the most comprehensive warranty in the business and a global support network. When you have a question about any part of the system, you can call us. We've been here for over 50 years, and we'll continue to be here, serving your needs and engineering the products that meet tomorrow's challenges.



Antennas

Frequency Range	
10 kHz – 50 GHz	1

Power Range W - 20 kW

Find it Fast Table

Frequency	Power (W)	Model Number	Page				
	Log-Periodic						
26 – 250 MHz	15000	ATR26M250	84				
26 MHz – 1 GHz	20000	ATR26M1G	84				
26 MHz - 6 GHz	5000	ATR26M6G	85				
26 MHz - 6 GHz	5000	ATR26M6G-1	85				
80 MHz – 1 GHz	5000	ATL80M1G	86				
80 MHz - 6 GHz	5000	ATR80M6G	86				
150 MHz – 1 GHz	5000	ATL150M1G	87				
200 MHz - 6 GHz	5000	ATR200M6G	88				
700 MHz - 7.5 GHz	1200	ATT700M8G	88				
700 MHz - 12 GHz	600	ATT700M12G	89				
		I					
Horn							
200 MHz - 1 GHz	5000	ATH200M1G	90				
200 MHz - 1 GHz	10000	ATH200M1G-1	90				
200 MHz – 2 GHz	1000	ATH200M2G	90				

Frequency	Power (W)	Model Number	Page
400 MHz - 1 GHz	4700	ATH400M1G	91
800 MHz - 6 GHz	2300	ATH800M6G	92
2 – 10 GHz	700	ATH2G10	93
4 – 8 GHz	1200	ATH4G8	93
6 – 8 GHz	3000	ATH6G18A	94
7.5 - 18 GHz	2800	ATH7G18A	94
18 - 26.5 GHz	350	ATH18G27A	95
18 - 26.5 GHz	350	ATH18G27A-1	95
18 - 40 GHz	450	ATH18G40	96
26.5 - 40 GHz	240	ATH26G40A-1	97
26.5 - 40 GHz	400	ATH26G40A	97

Frequency Power		Model Number	Page
E-F	ield Ger	erators	
10 kHz – 25 MHz	3000	ATE10K25M-1	98
10 kHz – 30 MHz	1000	ATE10K30MA	99
10 kHz – 100 MHz	500	ATE10K100M	99
10 kHz – 100 MHz	3000	ATP10K100M	100

The antennas you need for virtually any testing procedures are right here at AR. We offer a complete variety of rugged, high power antennas, with expect field generation graphs. Since all are frequency and power matched to AR amplifiers, it's easy to precisely select the suitable unit.

		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	s	8
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Accessories

	Category	Page
1	Coaxial Cables	103
2	Dual Directional Couplers	105
3	Field Monitoring	117
4	Load Attenuators	116
5	Masts	128
6	Tripods & Antenna Positioners	121
7	Power Heads	119
8	Power Meters	119
9	RF Test System Controllers	123
10	Shielded Enclosure Leak Detectors	123
11	Software	122
12	System Interlock	123
13	Turntables	126
14	USB Pulse Power Sensors	120

4

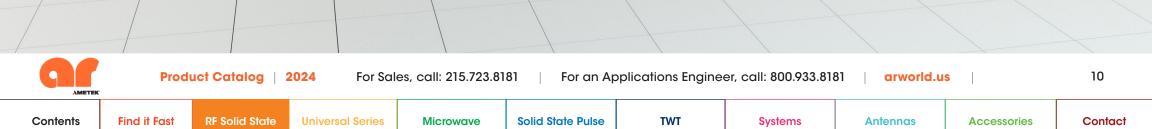


Select a



All our RF solid-state amplifiers have modulation capability that will faithfully reproduce AM, FM or Pulse Modulation appearing on the input signal for use in the most demanding EMC applications. These selfcontained, broadband, completely solid-state amplifiers are designed for applications requiring the ultimate in output power over a wide instantaneous bandwidth with high gain.





Frequency Range 4 kHz - 1 GHz

Power Range 1 W - 10 kW

100A400AM20 4 kHz - 400 MHz 100 W CW

Rated Output Power Into 50Ω:



	: 10 W min. rising to 100 W min. at 100 kHz 00 kHz – 400 MHz: 125 W, typ.; 100 W min.
Input for Rated Output	1 milliwatt max.
	mpression Into 50Ω: iz: 10 W min. rising to 100 W min. at 100 kHz 00 kHz – 400 MHz: 125 W typ.; 100 W min.
Power Output @ 1 dB Co 4 kHz – 10	mpression Into 50Ω: 20 kHz: 10 W min. rising to 75 W at 100 kHz 100 kHz – 400 MHz: 85 W typ.; 75 W min.
Flatness ±1	dB typ. / ±1.5 dB max, 100 kHz – 400 MHz
Frequency Response	4 kHz-400 MHz instantaneously
Gain 50 dB min., 1	(at max. setting) 100 kHz – 400 MHz; <50 dB below 100 kHz
Gain Adjustment (continu	ious range) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance*

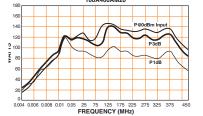
100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Harmonic Distortion

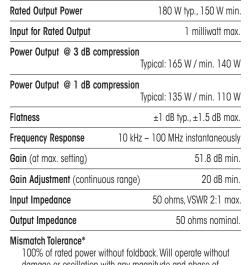
Minus 20 dBc max. at 75 W	,
Minus 30 dBc typical at 50 W (.01 – 400 MHz)

Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.

Primary Power	100 – 240 VAC, 50 / 60 Hz, 500 W
Connectors	
RF Input	Type N female
RF Output	Type N female
Remote Interfaces	
IEEE-488	24–pin female
RS-232	9-pin Subminiature D female
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With cabinet	18.5 kg (41 lb.)
Without cabinet	10.4 kg (23 lb.)
Size (WxHxD)	
With cabinet 50.	.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in
	8.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in
Export classification	EAR99



150A100D 10 kHz - 100 MHz 150 W CW



damage or oscillation with any magnitude and phase of source and load impedance.

Noise Figure	9 dB typ.
Harmonic Distortion	
	Minus 20 dBc max. at 100 W
	Minus 30 dBc typ. at 70 W
Third Order Intercept Point	55 dBm typ.

Spurious	Minus 73 dBc typ.
Primary Power	100 – 240 VAC

50/60 Hz

500 W



Connectors									
RF Input	Type N female								
RF Output	Type N female								
Remote Interfaces IEEE-488 RS-232 Fiber optic USB 2 Ethernet Safety Interlock	24–pin female 9–pin subminiature D (female ST Conn Tx and Rx RS–232 Type B RJ–45 15–pin subminiature I								
Cooling	Forced air (self-contained fans)								
Weight With cabinet Without cabinet Size (WxHxD) With cabinet Without cabinet	18.5 kg (41 lb.) 10.4 kg (23 lb.) 50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. 48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.								
Export classification	EAR99								
	150A100D								
250									
225									
200	P@0dBm input								
SLLE 150	P3dB								
	P1dB								
125									

	225														_
	200														
~	175	-	<	\sim		-		P	@0dE	3m inj	out				
WATTS	150					\sim			P3dB						-
¥	150			_	\sim				P1dB					\sim	
-	125								FIUD			_	_	- 1	
	100														
	100														
	75														
	50														
	.00	90	0.	5 9	5 1	52	53	54	5 5	56	5 7	58	5 9	5 10	15
						1	FREC	QUEN	IC Y	(MH:	z)				

Аметек	Prod	luct Catalog	2024 For Sa	les, call: 215.723.81	81 For an	Applications Engine	eer, call: 800.933.81	81 arworld.u	IS	11
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	TWT	Systems	Antennas	Accessories	Contact

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

1200A225B 10 kHz - 225 MHz 1200 W CW

Rated Output Power	
/1	o.: 1,350 W, min. 1,200 W, .01 – 100 MHz .: 1,250 W, min. 1,100 W, 100 – 225 MHz
Input for Rated Output	1 milliwatt max.
	ompression a.: 1,350 W, min. 1,200 W, .01 – 100 MHz .: 1,250 W, min. 1,000 W, 100 – 225 MHz
Power Output @ 1 dB c Typ	ompression b.: 1,250 W, min. 1,100 W, .01 – 100 MHz Typ.: 900 W, min. 750 W, 100 – 225 MHz
Flatness	±2 dB typ., ±2.5 dB max.
Frequency Response	10 kHz–225 MHz instantaneously
Gain (small signal)	62 dB min,
Gain Adjustment (contin	nuous range) >20 dB
Input Impedance	50 ohms, VSWR to 2.0:1 max.

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. Load mismatch above 6:1 may limit output reflected power to 50% of minimum rated power.

Harmonic Distortion

Minus 30 dBc typical, minus 20	dBc maximum at 1000 W
Third Order Intercept Point	72 dBm typ.

Third Order Intercept Point

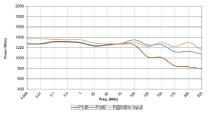
Primary Power

200 - 240 VAC single-phase 50/60 Hz, 4.0 kW



	50.3 x 47 x 65.3 cm / 19.8 x 18.5 x 25.7 in
Size (WxHxD)	
Weight	23.1 kg (151 lbs)
Cooling Forced air (self-	contained fans)
Ethernet Safety Interlock	RJ-45 15-pin subminiature D
USB 2	Type B
RS–232 Fiber optic	9-pin subminiature D (female) ST Conn Tx and Rx RS-232
Remote Control	24-pin female
RF Output:	7-16 DIN female
Connectors RF Input:	N female

TYPICAL PSAT POWER @ 0dBm INPUT, 1 dBm, 3dBm



2500A225C 10 kHz - 225 MHz 2500 W CW

Rated Output Power	
	Typ.: 2,800 W, min. 2,500 W, .01 – 100 MHz
	Typ.: 2,300 W, min. 2000 W, 100 – 225 MHz
Input for Rated Outp	ut 1 milliwatt max.
Power Output @ 3 d	B compression
	Typ.: 2,800 W, min. 2,500 W, .01 - 100 MHz
	Typ.: 2,300 W, min. 2000 W, 100 - 200 MHz
	Typ.: 2000 W, min. 1,800 W, 200 – 225 MHz
Power Output @ 1 d	B compression
	Typ.: 2,400 W, min. 2000 W, .01 – 100 MHz
	Typ.: 1,900 W, min. 1,500 W, 100 – 200 MHz
	Typ.: 1,500 W, min. 1,300 W, 200 – 225 MHz
Flatness	±1.5 dB typ., ±2.5 dB max
Frequency Response	e 10 kHz – 225 MHz instantaneously
Gain (small signal)	64 dB min.
Gain Adjustment (co	ntinuous range) 20 dB
Input Impedance	50 ohms, VSWR 2.0:1 max.
Output Impedance	50 ohms nominal
Mismatch Tolerance	

Mismatch Tolerance

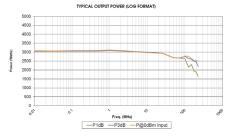
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. Load mismatch above 6:1 may limit output reflected power to 50% of minimum rated power.

Harmonic Distortion @ 1750 W Minus 40 dBc typical, minus 20 dBc maximum at 1,750 W Third Order Intercept Point 74 dBm typ.

Minus 70 dBc typ. Spurious



RF Output: 7-16 DIN femal Sample Ports N femal Remote Package 1 IEEE-488 24-pin femal RS-232 9-pin subminiature D (female Fiber optic ST Conn Tx and Rx RS-23	Ethernet Safety Interlock	RJ-45 RJ-45 15-pin subminiature D
RF Output: 7-16 DIN femal Sample Ports N femal Remote Package 1 IEEE-488 24-pin femal RS-232 9-pin subminiature D (female	USB 2	Type E
RF Output: 7-16 DIN femal Sample Ports N femal Remote Package	RS-232	9–pin subminiature D (female)
RF Output: 7-16 DIN femal	Remote Package	
DE Input: N fema		N female 7-16 DIN female N female



С		uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	12
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

5000A225C 10 kHz - 225 MHz 5000 W CW

Mismatch Tolerance

Harmonic Distortion @ 3750 W

Third Order Intercept Point

power.

Spurious

Rated Output Power	
	Typ.: 5,500 W, min. 5000 W, .01 – 100 MHz Typ.: 4,500 W, min. 4000 W, 100 – 225 MHz
Input for Rated Output	1 mW max.
Power Output @ 3 dB	compression
	Typical: 5,500 W, min. 5000 W, .01 – 100 MHz ypical: 4,500 W, min. 4000 W, 100 – 150 MHz Typical: 4250 W, min 3750 W, 150 – 225 MHz
Power Output @ 1 dB	compression
	Typical: 5000 W, min 4000 W, .01 – 100 MHz
	Typical: 4000 W, min 3000 W, 100 - 150 MHz
	Typical: 3250 W, min 2750 W, 150 - 225 MHz
Flatness	±1.5 dB typ., ±2.5 dB max
Frequency Response	10 kHz–225 MHz instantaneously
Gain (small signal)	67 dB min.
Gain Adjustmen† (cont	inuous range) >20 dB
Input Impedance	50 ohms, VSWR 2:1 max
Output Impedance	50 ohms nominal

Will operate without damage or oscillation when connected to any

load impedance without the aid of foldback circuitry. Load mismatch

above 6:1 may limit output reflected power to 50% of minimum rated

Minus 30 dBc typ., minus 20 dBc max. at 3750 W

77 dBm typ.

Minus 70 dBc typ.

5 4 5- 201 0

Primary Power (user mus 200 – 240 VAC of	st specify): r 380-415 VAC, 3-phase, 50/60Hz,17 kW
Connectors	
RF Input:	N female
RF Output:	EIA 1–5/8 male, rear
Remote Control	
IEEE-488	24-pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin subminiature D
Weight	295 kg (650 lbs)
Size (WxHxD) 57.4 x	x 181 x 95.5 cm/ 22.6 x 71.25 x 37.6 in.
Export classification	EAR99
TYPICAL C	OUTPUT POWER (LINEAR FORMAT)
10000	
8000	
7000	
6000 5000 4000	
4000	
3000	

* ゆ ゆ ゆ ゆ ゆ か ゆ Freq.(MHz)

-P1dB-P3dB-P@0dBm Input

00

10000A225B 10 kHz - 225 MHz 10000 W CW

Rated Output Power Nominal Minimum	12500 W 10000 W, .01 – 100 MHz 7000 W, 100 – 225 MHz
Input for Rated Output	1 milliwatt max.
Power Output for 1 dB compressio Nominal Minimum	n 9000 W 10000 W, .01 – 50 MHz 8000 W, 50 – 100 MHz 5500 W, 100 – 150 MHz 5000 W, 150 – 225 MHz
Flatness	±2.5 dB max. ±1.5 dB typ
Frequency Response 10	kHz–225 MHz instantaneously
Gain (small signal)	70 dB min.
Gain Adjustment (continuous range	e) 20 dB min
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
RE Lond Reflected	

RF Load Reflected

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. Load mismatch above 6:1 may limit output reflected power to 50% of minimum rated power.

Harmonic Distortion @ 7500 W	Minus 20 dBc max.
Third Order Intercept Point	77 dBm typ.
Primary Power (user must specify):	

200 - 240 VAC, Delta (4 wire) 380 - 415 VAC, Delta (4 wire) 47 – 63 Hz, 3–phase 35000 W max.



Weight	590 kg (1300 lbs)
Cooling	Forced air (self-contained fans)
RF Input RF Output RF Sample Safety Interlock Remote Control IEEE-488 RS-232 RS-232 (fiber optic): USB 2: Ethernet:	Type N female on rear panel Type EIA 1–5/8 male on rear panel Type N female on front panel 15–pin female Type D on rear panel 24–pin female on rear panel 9–pin female Type D Type ST Type B RJ–45



Аметек		uct Catalog	2024 For Sal	les, call: 215.723.81	181 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	IS	13
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

25A250B 10 kHz - 250 MHz 25 W CW

Rated Output Power	35 W typ., 25 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	
	Typ. 35 W / min. 25 W
Power Output @ 1 dB compression	
	Typ. 30 W / min. 20 W
Flatness	±1 dB typ./±1.5 dB max.
Frequency Response 10 kH	Iz—250 MHz instantaneously
Gain (at max. setting)	44 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance*

100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Harmonic Distortion	Minus 20 dBc max. at 20 W, Minus 35 dBc typ. at 15 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.



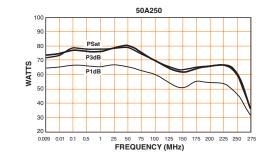
Primary Power										
	100 – 240 50 / 60 Hz. 20									
						5	0/0	50 F	IZ, 2	00 1
Connectors										
RF Input		Type N fei Type N fei								
RF Output								ype	IN TE	emai
Remote Interfaces									. ,	
IEEE-488 RS-232				0 n	in Sı	ıhm				emal
Fiber optic					T Co					
USB 2									T	ype
Ethernet									ŀ	2J-4
Safety Interlock					15	ō–pii	n Su	ıbm	iniat	ure
Cooling			F	orced	air	(self	-co	ntai	ned	fans
Weight With cabinet Without cabinet	16.7 kg (37 8.6 kg (19									
Size (WxHxD) With cabinet Without cabinet			5.5 x 13.2		,					
Export classification	1								E	AR9
60			25A	250B						
55										
50										
45			PSat							
			P3dE	\square		=				
	-									
SLLW 40 35			P1dB						$\mathbf{\Lambda}$	
			P1dB	-	<u> </u>		-	-		
35	-		P1dB				-	-		

50A250 10 kHz - 250 MHz 50 W CW

Rated Output Power	70 W typ., 50 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB comp	ression Typ. 70 W / min. 50 W
Power Output @ 1 dB comp	ression Typ. 55 W / min. 40 W
Flatness	±1 dB typ./±1.5 dB max
Frequency Response	10 kHz – 250 MHz instantaneously
Gain (at max. setting)	47 dB min.
Gain Adjustment (continuous	s range) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
	out foldback. Will operate without a any magnitude and phase of ce.
Harmonic Distortion	Minus 20 dBc max. at 40 W Minus 30 dBc typ. at 30 W
Spurious	Minus 73 dBc typ
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.
Primary Power	100 – 240 VAC 50 / 60 Hz, 250 W



Connectors	
RF Input	Type N female
RF Output	Type N female
Remote Interfaces	
IEEE-488	24–pin female
RS-232	9-pin Subminiature D female
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	ŘJ–45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With cabinet	16.7 kg (37 lb.)
Without cabinet	8.6 kg (19 lb.)
Size (WxHxD)	
With cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in.
Without cabinet	48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99



Pr	oduct Catalog	2024 For Sal	les, call: 215.723.81	81	For an Ap	plications Engine	er, call: 800.933.818	31	arworld.us	

AMETER

Universal Series Microwave

0.009 0.01 0.1 0.5 1 25 50 75 100 125 150 175 200 225 250 275 FREQUENCY (MHz)

Solid State Pulse

TWT

Systems

Antennas

Accessories

Contact

14

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

125A250 10 kHz - 250 MHz 125 W CW

Rated Output Power	150 W typ., 125 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	1
	Typical: 145 W / min. 125 W
Power Output @ 1 dB compression	1
· · ·	Typical: 110 W / min. 90 W
Flatness	±1 dB typ., ±1.5 dB max.
Frequency Response	10 kHz – 250 MHz instantaneously
Gain (at max. setting)	50 dB min.
Gain Adjustment (continuous rang	e) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms nominal.

Mismatch Tolerance*

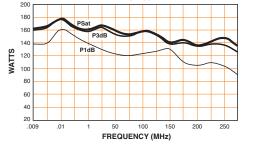
100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Noise Figure	8 dB typ.
Harmonic Distortion	
	Minus 20 dBc max. at 90 W Minus 30 dBc typ. at 70 W
Third Order Intercept Point	55 dBm typ.
Spurious	Minus 73 dBc typ.
Primary Power	
	100 – 240 VAC
	50/60 Hz

Find it Fast



Connectors RF Input RF Output	Type N female Type N female
Remote Interfaces	24-pin female
RS-232	9–pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15–pin subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With cabinet	18.5 kg (41 lb.)
Without cabinet	10.4 kg (23 lb.)
Size (WxHxD)	
With cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in
Without cabinet	48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in
Export classificatio	n EAR99

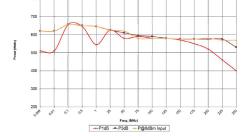


500A250D 10 kHz - 250 MHz 500 W CW

Rated Output Power	
600 W typ.,	525 W min., .01 – 250 MHz
Power Output @ 3 dB compression	
	525 W min., 0.01 – 200 MHz
	W min., 200 MHz – 250 MHz
Power Output @ 1 dB compression	175 W min 0.01 000 MU
	175 W min., 0.01 – 200 MHz N min., 200 MHz – 250 MHz
Flatness	±1.5 dB typ., ±2 dB max
Frequency Response 10 kH	Iz-250 MHz instantaneously
Gain (at max. setting)	57.2 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max
Output Impedance	50 ohms nominal.
Mismatch Tolerance*	
Will operate without damage or osc	illation when connected to
any load impedance without the aid	I of foldback circuitry.
Noise Figure	7 dB typ.
Harmonic Distortion Minus 20 dBc max. at 400 W; <-20	0 dBc typ. at 500 W
Third Order Intercept Point	68 dBm typ.

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ä	N-CH 30	۲
	<u>نه</u> ۵۵	

Connectors RF Input RF Output RF Sample Ports	Type N female Type N female Type N female (optional)	
Remote Interfaces IEEE-488 RS-232 Fiber optic USB 2 Ethernet Safety Interlock	24-pin female 9-pin subminiature D (female) ST Conn Tx and Rx RS-232 Type B RJ-45 15-pin subminiature D	
Cooling	Forced air (self-contained fans)	
Weight With Cabinet Without Cabinet	78 kg (171 lb.) 58 kg (128 lb.)	
Size (WxHxD) With Cabinet Without Cabinet	50.3 x 38.1 x 75.5 cm / 19.8 x 15 x 29.7 in. 48.3 x 35.6 x 75.5 cm / 19 x 14 x 29.7 in.	
Export classification	EAR99	
800	500A250D Typical Output Power	



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_	лметек	2	

Product Catalog 2024

Universal Series

For Sales, call: 215.723.8181

For an Applications Engineer, call: 800.933.8181

TWT

arworld.us

Antennas

15

Contents

RF Solid State

500 W

Microwave

Solid State Pulse

Spurious

Primary Power

Systems

Minus 73 dBc typ.

200 - 240 VAC

50 / 60 Hz, 2,400 W

Accessories

Frequency Range 10 kHz – 1 GHz Power Range

100A400A 10 kHz - 400 MHz 100 W CW

Rated Output Power	130 W typ., 100 W min.				
Input for Rated Output	1 milliwatt max.				
Power Output @ 3 dB compression					
•	Typ. 125 W / min. 100 W				
Power Output @ 1 dB compression					
- · ·	Typ. 85 W / min. 75 W				
Flatness	±1 dB typ./±1.5 dB max.				
Frequency Response 10 kH	z–400 MHz instantaneously				
Gain (at max. setting)	50 dB min.				
Gain Adjustment (continuous range)	20 dB min.				
Input Impedance	50 ohms, VSWR 2:1 max.				
Output Impedance	50 ohms, nominal				

Mismatch Tolerance*

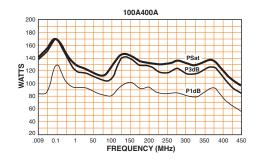
100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.

Harmonic Distortion

	Minus 20 dBc max. at 75 W, Minus 30 dBc typical at 50 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.
Primary Power	100 – 240 VAC 50 / 60 Hz, 500 W



Connectors	
RF Input	Type N female
RF Output	Type N female
Remote Interfaces	
IEEE-488	24–pin female
RS-232	9-pin Subminiature D female
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With cabinet	18.5 kg (41 lb.)
Without cabinet	10.4 kg (23 lb.)
Size (WxHxD)	
With cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in.
Without cabinet	48.3 x 13.2 x 55.1 cm / 19.8 x 5.2 x 21.7 in
Export classificatio	n EAR99



175A400 10 kHz – 400 MHz 175 W CW

Rated Output Power	225 W typ., 175 W min.
Input for Rated Output	1 milliwatt max
Power Output @ 3 dB compre	ssion Typ. 210 W / min. 165 W
Power Output @ 1 dB compres	ssion Typ. 165 W / min. 125 W
Flatness	±0.9 dB typ. / ±1.5 dB max.
Frequency Response	10 kHz-400 MHz instantaneously
Gain (at max. setting)	52.5 dB min.
Gain Adjustment (continuous r	range) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max
Output Impedance	50 ohms, nomina
	ut foldback. Will operate without any magnitude and phase of e.
Harmonic Distortion	Minus 20 dBc max. at 150 W

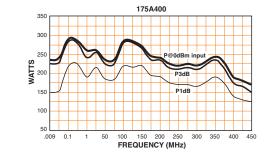
60 dBm typ.

8.5 dB typ.

100 – 240 VAC 50 / 60 Hz, 770 W



Connectors	Tuno N fomalo
RF Input RF Output	Type N female Type N female
Remote Interfaces IEEE-488 RS-232 Fiber optic USB 2 Ethernet	24–pin female 9–pin Subminiature D female ST Conn Tx and Rx RS–232 Type B RJ–45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self–contained fans)
Weight With cabinet Without cabinet	33 kg (73 lb.) 22 kg (48 lb.)
Size (WxHxD) With cabinet Without cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in. 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.
Export Classification	EAR99



Аметек	Prod	uct Catalog 2	2024 For Sal	es, call: 215.723.81	181 For an A	pplications Engine	er, call: 800.933.81	81 arworld.u	IS	16
Contents	Find it Fast	RE Solid State	Universal Series	Microwaye	Solid State Pulse	тут	Systems	Antennas	Accessories	Contact

Third Order Intercept Point

Noise Figure

Primary Power

Frequency Range 10 kHz – 1 GHz Power Range

250A400 10 kHz - 400 MHz 250 W CW

Output Impedance	50 ohms, nominal
Input Impedance	50 ohms, VSWR 2:1 max.
Gain Adjustment (continuous range	e) 20 dB min.
Gain (small signal)	54 dB min.
Frequency Response	10 kHz-400 MHz instantaneously
Flatness	± 1.5 dB typ. / ± 2 dB max.
Power Oulpul @ 1 ub compression	Typ. 250 W / min. 200 W
Power Output @ 1 dB compression	
Power Output @ 3 dB compression	Typ. 325 W / min. 250 W
Input for Rated Output	1 milliwatt max.
Rated Output Power	325 W typ., 250 W min.

Mismatch Tolerance*

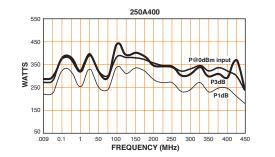
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Harmonic Distortion			
	Minus 20 dBc max. at 250 W		
Spurious	Minus 73 dBc typ.		
Third Order Intercept Point	65 dBm typ.		
Noise Figure	8.5 dB typ.		
Primary Power	100 0401/10		
	100 – 240 VAC		

50 / 60 Hz, 1,350 W



Connectors RF Input	Type N female
RF Output	Type N female
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D female
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With cabinet	45 kg (98 lb.)
Without cabinet	33 kg (73 lb.)
Size (WxHxD)	
With cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in
Without cabinet	48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in
Export Classification	on EAR99



350A400 10 kHz – 400 MHz 350 W CW

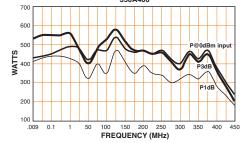
Rated Output Power	425 W typ., 350 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compre	ssion
·	Typ. 400 W / min. 325 W
Power Output @ 1 dB compre	ssion
	Typ. 325 W / min. 225 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	10 kHz–400 MHz instantaneously
Gain (at max. setting)	55.5 dB min.
Gain Adjustment (continuous	range) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
	50 ohms, nominal

damage or oscillation with any magnitude and phase of source and load impedance.

Minus 20 dBc max. at 300 W
Minus 73 dBc typ.
65 dBm typ.
8.5 dB typ.
100 – 240 VAC 50 / 60 Hz , 1,750 W



Connectors	
RF Input	Type N female
RF Output	Type N female
Remote Interfaces IEEE-488 RS-232 Fiber optic USB 2 Ethernet	24–pin female 9–pin Subminiature D female ST Conn Tx and Rx RS–232 Type B RJ–45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight With cabinet Without cabinet	48 kg (104 lb.) 35 kg (78 lb.)
Size (WxHxD) With cabinet Without cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in. 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.
Export Classification	EAR99
	350A400
700	
600	



Accessories

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AMETEK				

Product Catalog

2024 For Sales

Universal Series

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Contents

Find it Fast

RF Solid State

Microwave

Solid State Pulse

Systems

Antennas

Contact

17

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

600A400 10 kHz - 400 MHz 600 W CW

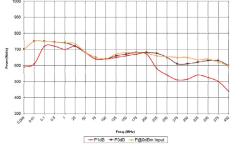
Rated Output Power	
	W typ., 600 W min.; .01 – 250 MHz ., 525 W min., 250 MHz – 400 MHz
Power Output @ 3 dB compre	ession
	W typ., 600 W min.; .01 – 250 MHz b., 525 W min., 250 MHz – 400 MHz
Power Output @ 1 dB compre	ession
	W typ., 500 W min.; .01 – 250 MHz o., 400 W min., 250 MHz – 400 MHz
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	10 kHz–400 MHz instantaneously
Gain (at max. setting)	57.8 dB min.
Gain Adjustment (continuous	range) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Harmonic Distortion <-20 typical at 600 W	Minus 20 dBc maximum at 500 V	
Spurious	Minus 73 dBc typ.	
Third Order Intercept Point	67 dBm typ.	
Noise Figure	7.5 dB typ.	
Primary Power	200 – 240 VAC 50 / 60 Hz, 2,950 W	



Connectors	
RF Input	Type N female
RF Output	Type 7-16 DIN
RF Sample Ports:	Type N female (optional)
Remote Interfaces	
IEEE-488	24–pin female
RS-232	9-pin Subminiature D female
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With cabinet	87 kg (191 lb.)
Without cabinet	68 kg (148 lb.)
Size (WxHxD)	
With cabinet	50.3 x 38.1 x 75.5 cm / 19.8 x 15 x 29.7 in
Without cabinet	48.3 x 35.6 x 75.5 cm / 19 x 14 x 29.7 in
Export Classificatio	n EAR99
1000	600A400 Typical Output Power



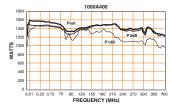
1000A400 10 kHz - 400 MHz 1000 W CW

Rated Output Power	1,200 W typ., 1000 W min.	
Input for Rated Output	1 milliwatt max.	
Power Output @ 3 dB compressi	ion Typ. 1,200 W / min. 1000 W	
Power Output @ 1 dB compressi	ion Typ. 1000 W / min. 800 W	
Flatness	±1.5 dB typ. / ±2 dB max.	
Frequency Response	0 kHz–400 MHz instantaneously	
Gain (at max. setting)	60 dB min.	
Gain Adjustment (continuous rar	nge) 25 dB min.	
Input Impedance	50 ohms, VSWR 2:1 max.	
Output Impedance	50 ohms, nomine	
Mismatch Tolerance Will operate without damage c any load impedance without t	or oscillation when connected to the aid of foldback circuitry.	
Modulation Capability Will faithfully reproduce AM, FM appearing on the input signal.	I, or pulse modulation	
Harmonic Distortion	Minus 20 dBc max. at 1000 W	
Spurious	Minus 73 dBc typ.	
Third Order Intercept Point	68 dBm typ.	
Noise Figure	8 dB typ.	
Primary Power	200 240 \/AC	

200 – 240 VAC 3-phase, 50/60 Hz, 5.2 kW



Connectors RF Input	Type N female
RF Output	7–16 DIN female, real
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D female ST Conn Tx and Rx RS-232
Fiber optic USB 2	ST CONNIX and RX RS-232 Type B
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	124.8 kg (275 lb.)
Size (WxHxD)	56.1 x 97.8 x 82.5 cm / 22.1 x 38.5 x 32.5 in
Environmental	
Operating Temperatur	re: 5°C / +40°C
Operating Altitude:	Up to 2000 N
Shock and vibration:	Normal Truck Transpor
Regulatory Complianc	e
EMC	EN 61326-1
Safety	UL 61010-1, CAN/CSA C22.2 #61010-1
	CENELEC EN 61010-1
RoHS	DIRECTIVE 2011/65/EU
Export Classification	EAR99
1800	1000A400
1600	Post
1400	Pade



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Product Catalog 2024

For Sales, call: 215.723.8181

Universal Series

For an Applications Engineer, call: 800.933.8181

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18

Contents

Find it Fast **RF Solid State**

Microwave

	Solid State Pulse	
--	-------------------	--

- 3)	/51	e	m	S	

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

50W1000D 50 - 1000 MHz 50 W CW

Rated Output Power	70 W typ., 50 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Typ. 70 W / min. 60 W
Power Output @ 1 dB compression	Typ. 60 W / min. 45 W
Flatness	±1 dB typ./±1.5 dB max.
Frequency Response	50–1000 MHz instantaneously
Gain (at max. setting)	48 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

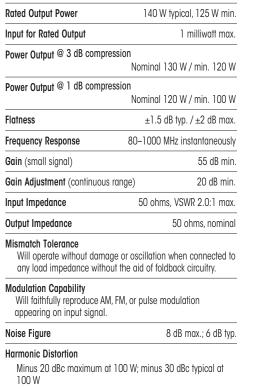
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Harmonic Distortion	
	Minus 20 dBc max. at 50 W, Minus 30 dBc typ. at 50 W
Spurious	Minus 73 dBc typ.
Third Order Intercept Point	55 dBm typ.
Noise Figure	8 dB typ.

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100 – 240 VAC 50 / 60 Hz, 250 W
Type N female
Type N female
24–pin female 9–pin Subminiature D female
ST Conn Tx and Rx RS-232
Type B R.I–45
15–pin Subminiature D
Forced air (self-contained fans)
17.7 kg (39 lb.) 9.5 kg (21 lb.)
50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. 18.3 x 13.2 x 55.1 cm / 19.8 x 5.2 x 21.7 in.
EAR99
50W1000D
PSat

125W1000A 80 - 1000 MHz 125 W CW

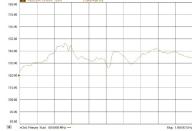


140 W typ	ical, 125 W min.	Primary Power
	1 milliwatt max.	
ession Nominal 130 ession	W / min. 120 W	Connectors RF Input RF Output
	W / min. 100 W	Remote Interfa
±1.5 dB ty	/p. / ±2 dB max.	IEEE-488 RS-232
80–1000 MHz	instantaneously	Fiber Optic
	55 dB min.	USB 2 Ethernet
s ranae)	20 dB min.	

58 dBm typ.

Minus 73 dBc typ.

RF Output	Type N female on front panel
Remote Interfaces	Type to female of from parter
IEEE-488	24-pin female
RS-232	9-pin Subminiature D (female)
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight With cabinet Without cabinet	26.5 kg (58.5 lb.) 15.8 kg (34.75 lb.)
Size (WxHxD)	
With cabinet	51 x 17 x 65.3 cm / 20.1 x 6.7 x 25.7 in.
Without cabinet	48.3 x 13.4 x 65.3 cm / 19 x 5.3 x 25.7 in.
Export Classification	EAR99
	TYPICAL PSAT POWER @ 0 dBm INPUT
185.00 Post Link 10.00%	125W [Tisoo Max Or]
175.00	
105.00	



Accessories

q		F
	EK.	

Find it Fast

Product Catalog | 2024

50

Universal Series

For Sales, call: 215.723.8181

100 200 300 400 500 600 700 800 900 1000 FREQUENCY (MHz)

For an Applications Engineer, call: 800.933.8181

arworld.us

19

100 - 240 VAC

50/60 Hz, 600 W

Type N female on front panel

Contents

RF Solid State

Solid State Pulse Microwave

TWT

Spurious

Third Order Intercept Point

Systems

Antennas

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

150W1000B 80 - 1000 MHz 150 W CW

Rated Output Power	160 W typical, 130 W min.			
Input for Rated Output	1 milliwatt max.			
Power Output @ 3 dB compress				
	Nominal 150 W / min. 125 W			
Power Output @ 1 dB compression				
	Nominal 125 W / min. 100 W			
Flatness	±1.5 dB typ. / ±2 dB max.			
Frequency Response	80–1000 MHz instantaneously			
Gain (small signal)	53` dB min			
Gain Adjustment (continuous rar	nge) 20 dB min.			
Input Impedance	50 ohms, VSWR 1.5:1 max.			
Output Impedance	50 ohms, nominal			
Mismatch Tolerance Will operate without damage any load impedance without t	or oscillation when connected to the aid of foldback circuitry.			

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on input signal.

Noise Figure	
Harmonic Distortion	

Minus 20 dBc maximum at 100 W; minus 30 dBc typical at 100 W

Third Order Intercept Point	58 dBm typ.
Spurious	Minus 73 dBc typ.

Spurious



Primary Power	
	100 – 240 VAC
	50/60 Hz, 650 W
Connectors	
RF Input	Type N female on front panel
RF Output Remote Interfaces	Type N female on front panel
IEEE-488	24–pin female
RS-232	9-pin Subminiature D (female)
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2	Туре Е
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight With cabinet Without cabinet	36.7 kg (81 lb.) 25.4 kg (56 lb.)
	i x 74.9 cm / 19.8 x 8.1 x 29.5 in 17.7 x 74.9 cm / 19 x 7 x 29.5 in
Export Classification	EAR99
TYPICAL OUTPUT POWER	(P1 dB, P3 dB compression)
Indiana (1997)	

250W1000C 80 - 1000 MHz 250 W CW

Rated Output Power	300 W typ., 250 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB comp	ression
Typical: 300	W, Minimum: 275 W up to 500 MHz; 250 W 500 – 1000 MHz
Power Output @ 1 dB comp	
Typical: 250	W, Minimum: 225 W up to 500 MHz; 200 W 500 – 1000 MHz
Flatness	
	±2 dB max./±1.5 dB typ.
Frequency Response	80–1000 MHz instantaneously
Gain (at max. setting)	54 dB min.
Gain Adjustment (continuous	range) 20 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.
Output Impedance	50 ohms, nominal
	ge or oscillation when connected to put the aid of foldback circuitry.
Modulation Capability Will faithfully reproduce AM appearing on input signal.	1, FM, or pulse modulation
Noise Figure	8 dB max.; 6 dB typ.
Harmonic Distortion	



Primary Power	
	100 - 240 VAC 50/60 Hz, 1000 V
Connectors	
RF Input	Type N female on front pane
RF Output	Type N female on front pane
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9–pin Subminiature D (female
Fiber Optic	ST Conn Tx and Rx RS-23
USB 2	Type I R.I–45
Ethernet	KJ-45
Safety Interlock	15-pin Subminiature E
Cooling	Forced air (self-contained fans
Weight	
With cabinet	42.6 kg (94 lb.
Without cabinet	31.3 kg (69 lb.)
Size (WxHxD)	
With cabinet Without cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in
	48.3 X 17.7 X 74.9 Cm / 19 X 7 X 29.5 m
Export Classification	EAR99
450	250W1000C Typical Output Power
425	
400	
350	
325 300	Piat
275	P3d8
250	

3/5 -																		
350 -	1	\wedge	Λ		-		-		_				-	-		-		
325 -			N	Psa	at –				_				-	-	_	-	_	
300 -	- (_	X	P3d	B					1	X	A	1	_		1		
275 -		_		Pld	-					1		/		-	-		1	1
250 -				Pid	8		_		~	/	1	-		_	_	_	_	
225 -	1	_	+	_	_		_		_				~	_	-	\neg		~
200 -		_		_			_						_	_	_	_		_
175 -							_						_	_	_	_		
150 -							_		_				_	_	_	_		_
000	1000 1000	18000 2005	P 25000	sonce sent	P AGOG	19000	50050	650.00	Stores	650.00	10000	160.00	600.00	850 TR	000.00	85000	00000	of p.d
								iq. (Mi										

Product	Catalog	202

8 dB max.; 6 dB typ.

24

Universal Series

For Sales, call: 215.723.8181

Freq. (MHz)

For an Applications Engineer, call: 800.933.8181

Minus 20 dBc maximum at 200 W; minus 30 dBc typical at

arworld.us

200 W

62 dBm typ.

Minus 73 dBc typ.

20

Contents	Find it

TWT

Spurious

Third Order Intercept Point

Systems

Antennas	Accessories

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

500W1000C 80 – 1000 MHz 500 W CW

Rated Output Power	600 W typ., 500 W Minimum
Input for Rated Output	1 mW max.
Power Output @ 3 dB compression	n
	V, Minimum: 525 W up to 700 MHz 475 W 700 – 1000 MHz
Power Output @ 1 dB compression	n
Typical: 500	W, Minimum:450 W up to 700 MHz 425 W 700 – 1000 MHz
Flatness	±1.0 dB max./±1.5 dB max
Frequency Response	80–1000 MHz instantaneously
Gain (at max. setting)	57 dB min
Gain Adjustment (continuous rang	ge) 25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max
Output Impedance	50 ohms, nomina

load impedance without the aid of foldback circuitry.

Modulation Capability

Will faithfully reproduce AM, appearing on input signal.	FM, or pulse modulation
Noise Figure	8 dB max.; 6 dB typ.
Harmonic Distortion	Minus 20 dBc maximum at 425 W; minus 30 dBc typical at 425 W
Third Order Intercept Point	63 dBm typ.
Spurious	Minus 73 dBc typ.



Primary Power				
	100 – 50/60 Hz,	240 VAC 1,800 W		
Connectors				
RF Input	Туре І	N female		
RF Output	Type I	V female		
Remote Interfaces	04	<i>.</i> .		
IEEE-488 RS-232		n female		
Fiber Optic	9-pin Subminiature D ST Conn Tx and Rx	` '		
USB 2		Type B		
Ethernet		RJ-45		
	15 via Outori			
Safety Interlock	15–pin Submir	niature D		
Cooling	Forced air (self-contained fans)			
	69.4 kg 50.8 kg 8.1 x 74.9 cm / 19.8 x 15 x 35.6 x 74.9 cm / 19 x 14 x	(112 lb.) (29.5 in		
Export Classification		EAR99		
800	500W1000C			
750				
700				
2 650 AMAA		Psat		
		P3dB		
- 550 V V V V		P3dB		
500		P1dB		

800W1000 80 - 1000 MHz 800 W CW

Rated Output Power (80 - Rated Output Power (650	
Input for Rated Output	1 milliwatt ma
Power Output @ 3 dB com Typical: 900 W / 800	n pression) W min. up to 650 MHz, Typical 800 V 700 W min. from 650 – 1000 MHz
Power Output @ 1 dB com Typical: 850 W / 725	n pression i W min. up to 650 MHz, Typical 700 V 625 W min. from 650 – 1000 MHz
Flatness	±2.0 dB max; ±1.5 dB ty
Frequency Response	80–1000 MHz instantaneous
Gain (small signal)	62 dB mi
Gain Adjustment (continue	ous range) 20 dB mii
Input Impedance	50 ohms, VSWR 1.5:1 ma
Output Impedance	50 ohms, nomin
	nage or oscillation when connected to the
Modulation Capability Will faithfully	reproduce AM, FM, or pulse modulatic appearing on input signo

Harmonic Distortion	
	Minus 20 dBc max. at 800 W
Third Order Intercept Point	66 dBm typ.
Spurious	Minus 73 dBc typ.
Noise Figure	8 dB max., 6 dB typ.



Primary Power	
	200 – 240 VAC
	50 / 60 Hz, 2,800W
Connectors	
RF Input	Type N female
RF Output	Type 7–16 DIN female on rear panel
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9–pin Subminiature D (female)
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans
Weight (with cabinet)	64 kg (141 lb.)
Weight (without cabinet)	44.9 kg (110 lb.)
Size (WxHxD)	
	x 47 x 65.3 cm (19.8 x 18.5 x 25.7 in.)
Export Classification	EAR99

TYPICAL PSAT POWER @ 0 dBm INPU

21

Contact

Аметек	Produ	uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	TWT	Systems	Antennas	Accessories	

Frequency Range 10 kHz – 1 GHz

Power Range 1 W - 10 kW

1000W1000H 80 - 1000 MHz 1000 W CW

., 1100 W min. (80 - 650 MHz) 000 W min. (650 - 1000 MHz)			
1 milliwatt max.			
Power Output @ 3 dB compression Typical: 1,250 W / 1,100 W min. up to 650 MH. Typical 1100 W/ 1000 W min. from 650 – 1000 MHz			
n / 1050 W min. up to 650 MHz, W min. from 650 – 1000 MHz			
±2 dB max; ±1.5 dB typ.			
80–1000 MHz instantaneously			
62 dB min.			
e) 20 dB min.			
50 ohms, VSWR 1.5:1 max.			
50 ohms, nominal			

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on input signal. Harmonic Distortion @ 1000 W Minus 20 dBc max. Minus 40 dBc typ.

Third Order Intercept Point	66 dBm typ.
Spurious	Minus 73 dBc typ.
Noise Figure	8 dB max., 6 dB typ.



Primary Power	
,	200 – 240 VAC
	50 / 60 Hz, 3,750 W
Connectors	
RF Input	Type N female
RF Output	Type 7–16 DIN female on rear panel
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D (female)
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans
Weight	156 kg (343 lb.)
Size (WxHxD)	
	36.0 x 67.1 cm / 22.6 x 53.5 x 26.5 in.
Export Classification	EAR99



2000W1000E 80 - 1000 MHz 2000 W CW

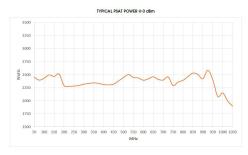
Rated Output Power	2,400 W typ., 2000 W m				
Input for Rated Output	1 milliwatt ma				
Power Output @ 3 dB co	mpression Nominal 2,200 W / 1900 W m				
Power Output @ 1 dB co	mpression Nominal 2,000 W / 1,700 W m				
Flatness	±2 dB max. / ±1.5 dB t				
Frequency Response	se 80–1000 MHz instantaneous				
Gain (small signal)	66 dB m				
Gain Adjustment (contin	uous range) 20 dB m				
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 t				
Output Impedance	50 ohms, nomir				
to any load impedanc	amage or oscillation when connected without the aid of foldback circuitry. bove 6:1 may limit output to 1000 wat				

– 20 dBc max. –30 dBc typ.
70 dBm typ.
Minus 73 dBc typ.
8 dB max., 6 dB typ.

Primary Power (user must specify)

200 – 240 VAC, Delta-connected (4-wire) 380 – 415 VAC, Wye-connected (5-wire) 50 / 60 Hz, 3 phase, 7.0 kW





	Produ	uct Catalog 2	2024 For Sale	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.818	81 <mark>arworld.u</mark>	S	22
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 10 kHz - 1 GHz

Power Range 1 W - 10 kW

3000W1000B 80 – 1000 MHz 3000 W CW

Rated Output Power	3000 W typ., 2800 W min
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB comp	ression
	al 3000 W / 2,600 W min. up to 500 MHz; 2,400 W from 500 – 1000 MHz
Power Output @ 1 dB comp	ression
Nomina	I 2,500 W / 2,250 W min. up to 500 MHz; 1,850 W from 500 – 1000 MHz
Flatness	±2 dB max. / ±1.5 dB typ.
Frequency Response	80 – 1000 MHz instantaneously
Gain (at max. setting)	64.8 dB min.
Gain Adjustment (continuou	ıs range) 25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 typ
Output Impedance	50 ohms, nomina

Mismatch Tolerance

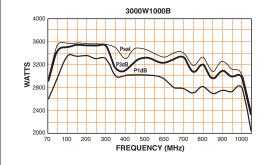
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 1,500 W reflected power.

Harmonic Distortion	Minus 20 dBc max. at 2,400 W, -20 dBc typ. at 3000 W
Third Order Intercept Point	72 dBm typ.
Noise Figure	8 dB max., 6 dB typ.

Primary Power (user must specify) 200 - 240 VAC, Delta connected (4-wire) 360 - 435 VAC, Wye connected (5-wire) 50 / 60 Hz, 3 phase, 14 kVA



	Connectors
Type N female on rear panel	RF Input
Type 1 5/8 female on rear panel	RF Output
Type N female, front	Forward Sample
Type N female, fron	Reverse Sample
	Remote Interfaces:
24-pin female	IEEE-488
9-pin Subminiature D, female	RS-232
ST Conn Tx and Rx RS-232	Fiber Optic
Туре В	USB 2
RJ-45	Ethernet
15-pin female subminiature D, rear pane	Safety Interlock
	Cooling
elf–contained fans), enters front and bottom	Forced air (se
364 kg (800 lb.)	Weight (approximate)
d cabinets)	Size (WxHxD) (2 joine
11.8 x 177.8 x 97.6 cm / 44 x 70 x 38.4 in	1



4000W1000B 80 - 1000 MHz 4000 W CW

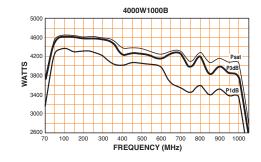
Rated Output Power	4000 W typ., 3700 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB o	compression
	al 4000 W / 3,600 W min. up to 500 MHz; 3,400 W from 500 – 1000 MHz
Power Output @ 1 dB (compression
	al 3,500 W / 3000 W min. up to 500 MHz; 2,500 W from 500 – 1000 MHz
Flatness	±2 dB max. / ±1.5 dB typ.
Frequency Response	80 – 1000 MHz instantaneously
Gain (at max. setting)	66 dB min.
Gain Adjustment (conti	nuous range) 25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 typ.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 2000 W reflected power.

Harmonic Distortion	Minus 20 dBc max. at 3,400 W, -20 dBc typ. at 4000 W
Third Order Intercept Point	73 dBm typ.
Noise Figure	8 dB max., 6 dB typ.
	cify) 240 VAC, Delta connected (4–wire) 435 VAC, Wye connected (5–wire) 50 / 60 Hz, 3 phase, 17.5 kVA



Connectors	
RF Input	Type N female on rear panel
RF Output	Type 1 5/8 female on rear panel
Forward Sample	Type N female, front
Reverse Sample	Type N female, front
Remote Interfaces:	
IEEE-488	24-pin female
RS-232	9–pin Subminiature D, female
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin female subminiature D, rear panel
Cooling	
Forced air (s	self-contained fans), enters front and bottom
Weight (approximate)	432 kg (950 lb.)
Size (WxHxD) (2 joined	cabinets)
()()	11.8 x 177.8 x 97.6 cm / 44 x 70 x 38.4 in.
Export classification	EAR99



		uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	23
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 10 kHz – 1 GHz Power Range

6000W1000 80 - 1000 MHz 6000 W CW

Rated Output Power	6000 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB com	pression
	,000 W / 5,500 W min. up to 700 MHz; 5,100 W from 700 – 1000 MHz
Power Output @ 1 dB com	pression
	500 W / 5000 W min. up to 700 MHz; 4,500 W from 700 – 1000 MHz
Flatness	±2 dB max. / ±1.5 dB typ.
Frequency Response	80–1000 MHz instantaneously
Gain (at max. setting)	67.8 dB min.
Gain Adjustment (continuo	us range) 25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 typ.
Output Impedance	50 ohms, nominal
Mismatch Tolerance*	

Mismatch Tolerance*

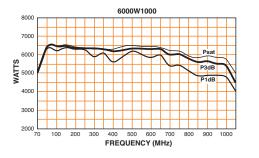
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 3000 W reflected power.

Harmonic Distortion	Minus 20 dBc max. at 5,500 W, -20 dBc typ. at 6000 W
Third Order Intercept Point	75 dBm typ.
Noise Figure	8 dB max., 6 dB typ.

Primary Power (user must specify) 200 – 240 VAC, Delta connected (4-wire) 360 – 435 VAC, Wye connected (5-wire) 50 / 60 Hz, 3 phase, 24 kVA



Connectors	
RF Input	Type N female on rear panel
RF Output	Type 3 1/8 EIA female on rear panel
Forward Sample	Type N female, front
Reverse Sample	Type N female, front
Remote Interfaces:	
IEEE-488	24–pin female
RS-232	9–pin Subminiature D, female
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin female subminiature D, rear panel
Cooling	
Forced air (se	If-contained fans), enters front and bottom
Weight (approximate)	703 kg (1,550 lb.)
Size (WxHxD) (3 joined	d cabinets)
	170 x 183 x 99 cm / 67 x 72 x 39 in.
Export classification	EAR99



10000W1000A 80 - 1000 MHz 10000 W CW

Rated Output Power	Nominal, 12,500 W
	12000 W min. up to 700 MHz
	10,500 W min., 700 – 1000 MHz
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB con	npression
	500 W / 12000 W min. up to 700 MHz 10000 W from 700 – 1000 MHz
Power Output @ 1 dB con	npression
Nominal 110	000 W / 10,500 W min. up to 700 MHz 9,500 W from 700 – 1000 MHz
Flatness	±2 dB max. /±1.5 dB typ
Frequency Response	80–1000 MHz instantaneously
Gain (at max. setting)	70 dB min.
Gain Adjustment (continue	ous range) 25 dB min.
Input Impedance	50 ohms, VSWR 1.5:1 max.; 1.3:1 typ
Output Impedance	50 ohms, nomina
	mage or oscillation when connected without the aid of foldback circuitry.

to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 6000 W reflected power.

Modulation Capability

Faithfully reproduces AM, FM, or pulse modulation appearing on input signal.

Harmonic Distortion Minus 20 dBc max. at 10000 W, -25 dBc typ. at 10000 W



Third Order Intercept Point	78 dBm typ.
Noise Figure	8 dB max., 6 dB typ
Primary Power (specify voltage	e)
	ÓO – 240 VAC, Delta connected (4–wire)
	360 - 435 VAC, Wye connected (5-wire)
	50 / 60 Hz, three phase, 48000W
Connectors	
RF Input	Type N female on rear pane
RF Output	Type 4–1/16 EIA, rear pane
Forward Sample	N female, front
Reverse Sample Remote Interfaces:	N female, front
IEEE-488	24-pin female
RS-232	9–pin Subminiature D, female
Fiber Optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock 1	5-pin female subminiature D, rear pane
Cooling	
Forced air (self-	-contained fans), enters front and bottom
SYSTEM:	2 3-bay racks
Weight (approximate)	1,407 kg (3,100 lb.)
Size (WxHxD)	
· /	340 x 183 x 99 cm / 134 x 72 x 39 in
Export classification	EAR99
15500	10000W1000A
14500	+++++++++++++++++++++++++++++++++++++++
13500	

FREQUENCY (MHz)

Аметек	Prod	uct Catalog	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	24
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

The "U" Series is a customizable, Class A design is ideal for universal applications such as laboratory and EMC testing, testing antennas, components, piezoelectric devices, wireless chargers, and more. The "U" Series are single band amplifiers available in 3dB increments, up to 500 W of power, and span 10 kHz - 1000 MHz.



Systems

Antennas

Accessories

Frequency Range 10 kHz - 1000 MHz

Power Range 1 - 500 W

1001000 10 kHz - 1000 MHz 10 W CW

Rated Output Power	15 W typ., 10 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	
	Typ. 15 W / min. 10 W
Power Output @ 1 dB compression	
·	Typ. 12 W / min. 10 W
Flatness	±1 dB typ., ±1.5 dB max.
Frequency Response 10 kHz -	1000 MHz instantaneously
Gain (at max. setting)	40 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	

Mismatch Iolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulo appearing on the input sig	
Third Order Intercept Point	50 dBm typ.
Noise Figure	8 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 10 W

Minus 73 dBc typ. Spurious

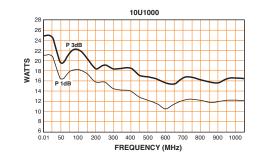
Primary Power (selected automatically)

100 – 240 VAC 50/60 Hz, 150 W

Prod



Connectors	
RF Input	Type N female
RF Output	Type N female
Remotes Package	
IEEE-488	24–pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin subminiature E
Cooling	Forced air (self–contained fans)
Weight	
With Cabinet	17.7 kg (41 lb.)
Without Cabinet	9.5 kg (23 lb.)
Size (WxHxD)	
With Cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in
Without Cabinet	48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in
Export classification	EAR99



2501000 10 kHz - 1000 MHz 25 W CW

Rated Output Power	30 W typ., 25 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB com	pression
	Typ. 30 W / min. 25 W
Power Output @ 1 dB com	pression
	Typ. 25 W / min. 20 W
Flatness	±1 dB typ., ±1.5 dB max.
Frequency Response	10 kHz – 1000 MHz instantaneously
Gain (at max. setting)	44 dB min.
Gain Adjustment (continuo	us range) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance 50 ohms, nomin	
	nage or oscillation when connected to hout the aid of foldback circuitry.
Modulation Capability Will faithfully re	eproduce AM, FM, or pulse modulation

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal	
Third Order Intercept Point	52 dBm typ.
Noise Figure	8 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 20 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automat	ically) 100 – 240 VAC 50/60 Hz, 200 W

Systems



Connectors	
RF Input	Type N female
RF Output	Type N female
Remotes Package	
IEEE-488	24-pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With Cabinet	17.7 kg (41 lb.)
Without Cabinet	9.5 kg (23 lb.)
Size (WxHxD)	
	i0.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in.
Without Cabinet	48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99
48	25U1000
46	
44 42	
40 P 3dB	
SF 36	
14 34 32	
30 P 1dB	

50 100 200 300 400 500 600 700 800 900 1000 FREQUENCY (MHz)

	Pro
Contents	Find it Fast

uct	Cata	log	2024

RF Solid State

Δ

Universal Series

For Sales, call: 215.723.8181

Microwave

Solid State Pulse

For an Applications Engineer, call: 800.933.8181

TWT

arworld.us

Antennas

18

0.01

27

Accessories	Contact
-------------	---------

Frequency Range 10 kHz - 1000 MHz

Power Range 1 - 500 W

5001000 10 kHz - 1000 MHz 50 W CW

Rated Output Power	70 W typ., 50 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compres	sion
	Typ. 70 W / min. 50 W
Power Output @ 1 dB compres	sion
	Typ. 60 W / min. 45 W
Flatness	± 1.5 dB typ., ± 2 dB max.
Frequency Response 10) kHz – 1000 MHz instantaneously
Gain (at max. setting)	47 dB min.
Gain Adjustment (continuous ro	ange) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

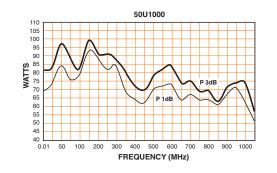
Modulation Capability

57 dBm typ.
8 dB typ.
Minus 20 dBc max. at 45 W Minus 20 dBc typical at 50 W
Minus 73 dBc typ.
tically) 100 – 240 VAC

50/60 Hz, 250 W



Connectors RF Input RF Output	Type N female Type N female
Remotes Package IEEE-488 RS-232 Fiber optic USB 2 Ethernet Safety Interlock	24-pin female 9-pin subminiature D (female) ST Conn Tx and Rx RS-232 Type B RJ-45 15-pin subminiature D
Cooling	Forced air (self–contained fans)
Weight With Cabinet Without Cabinet	17.7 kg (41 lb.) 9.5 kg (23 lb.)
Size (WxHxD) With Cabinet Without Cabinet	50.3 x 15.5 x 55.1 cm / 19.8 x 6.1 x 21.7 in. 48.3 x 13.2 x 55.1 cm / 19 x 5.2 x 21.7 in.
Export classification	EAR99



100U1000A 10 kHz - 1000 MHz 100 W CW



Primary Power (selected automatically)

Rated Output Power	120 W typ., 100 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB co	ompression
	Typ. 120 W / min. 90 W, 0.01 - 600 MHz p. 100 W / min. 80 W, 600 MHz - 1000 MHz
Power Output @ 1 dB co	ompression
	Typ. 45 W / min. 35 W, 0.0150 MHz Typ. 90 W / min. 75 W, .50 MHz - 1000 MHz
Flatness	±1.5 dB typ., ±2 dB max.
Frequency Response	10 kHz – 1000 MHz instantaneously
Gain (small signal)	52 dB min.
Gain Adjustment (contin	uous range) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Misses at the Talasana a	

Mismatch Tolerance

Spurious

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

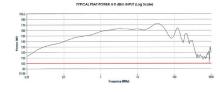
Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. Third Order Intercept Point 60 dBm typ. Noise Figure 8 dB typ. Harmonic Distortion Minus 20 dBc max. at 100 W, except for Minus 18 dBc typical at 100 W, from 0.01 - 0.50 MHz and 250 - 400 MHz

Minus 73 dBc typ.

	50/60 Hz, 450 W
Connectors	
RF Input	Type N female
RF Output	Type N female
Remotes Package	
IEEE-488	24-pin female
RS-232	9-pin subminiature D (female)
Fiber optic	ST Conn Tx and Rx RS-232
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With Cabinet	26.5 kg (58.5 lb.)
Without Cabinet	15.8 kg (34.75 lb.)
Size (WxHxD)	
With Cabinet	51.0 x 17.0 x 65.3 cm / 20.1 x 6.7 x 25.7 in
Without Cabinet	48.3 x 13.4 x 65.3 cm / 19.0 x 5.3 x 25.7 in
Export classificatio	n EAR99

100 - 240 VAC



	Produ	uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	28
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

1 milliwatt max.

Rated	Output	Power
-------	--------	-------

0.01 -700MHz: 280 watts typical, 250 watts minimum 700 -1000MHz: 225 watts typical, 210 watts minimum

Input for Rated Output

Power Output @ 3 dB compression

0.01 -700MHz: 270 watts typical, 240 watts minimum 700 -1000MHz: 225 watts typical, 190 watts minimum

Power Output @ 1 dB compression

0.01 -700MHz: 240 watts typical, 200 watts mini 700 - 1000MHz: 225 watts typical, 175 watts mini	

Flatness	±1.5 dB typ., ±2 dB max.
Frequency Response 10 kHz -	- 1000 MHz instantaneously
Gain (at max. setting)	54 dB min.
Gain Adjustment (continuous range)	20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation	Capability
------------	------------

Will faithfully repro	oduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	62 dBm typ.
Noise Figure	8.5 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 200 W Minus 20 dBc typical at 250 W



Spurious	purious Minus 73 dBc ty;				
Primary Power (select	ted automatically)				
	100 – 240 VAC 50/60 Hz, 1,150 W				
Connectors					
RF Input RF Output	Type N female Type N female				
Remotes Package					
IEEE-488	24–pin female				
RS-232	9-pin subminiature D (female)				
Fiber optic	ST Conn Tx and Rx RS-232				
USB 2	Type B				
Ethernet	RJ-45				
Safety Interlock	15–pin subminiature D				
Cooling	Forced air (self-contained fans)				
Weight					
With Cabinet	58.9 kg (130 lb.)				
Without Cabinet	46.2 kg (102 lb.)				
Size (W x H x D): 19"	6U Rack:				
With cabinet:	50.3 x 28 x 74.9 cm (19.8 x 11.2 x 29.5 in)				
Without Cabinet:	48.3 x 27.9 x 74.9 cm (19 x 11 x 29.5 in)				
Export classification	EAR99				
	250U1000A Typical Output Power				
450					
400					
Ĵ 300					

Freq. (MHz) —P1dB —P3dB —PSAT

300 250

Аметек		uct Catalog	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	29
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Solid	State	Puls
00110	oraic	i uis

rt/microwave instrumentation		
POWER	200 R: 00 100 25 8000	(ADAMAT)
N° NPUT Det	NT LOCAL REMOTE	
9		6

AR's microwave amplifiers are denoted as the "S" Series amplifiers, covering the 0.8 - 18 GHz frequency range. These amplifiers operate in frequency bands including; 0.8 - 6 GHz, 1 - 6 GHz, 1 - 2.5 GHz, and 6 to 18 GHz. Each band covers multiple power levels offering the highest available power for a specific frequency range. In addition to EMC testing, these amplifiers are particularly suited to Telecommunications testing

requirements such power drivers for Digital Predistortion, High Temperature Operating Life and Production Burn-in Systems.

Product Catalog

Find it Fast

2024

Universal Series

For Sales, call: 215.723.8181

For an Applications Engineer, call: 800.933.8181

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Antennas

31

Solid State Pulse Microwave

TWT

Systems

Frequency Range **0.8 – 18 GHz**

Power Range **15 - 2000 W**

30S1G6C 1 - 6 GHz 30 W CW

Rated Power Output	30 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 45 W / min. 35 W
Power Output @ 1 dB compression	Nominal 35 W / min. 25 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	1.0 – 6 GHz instantaneously
Gain ₍ Small Signal ₎	46 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2:1 max
Output Impedance	50 ohms, nomina
March 1 March	

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

Will faithfully rep	roduce AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	54 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 30 W
Spurious	Minus 73 dBc typ.



Primary Power (selected autor	100 – 240 VAC 47-63 Hz, single phase 400 W max.
Connectors RF input RF output	Type N female Type N female
Remote Interfaces IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24–pin female 9–pin Subminiature D (female) Type ST Type B RJ–45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air (self–contained fans)
Weight With Cabinet Without Cabinet	25.9 kg (57.0 lb.) 15.3 kg (33.75 lb.)
	7 x 65.3 cm / 20.1 x 6.7 x 25.7 in 3.4 x 65.3 cm / 19 x 5.3 x 25.7 in
Export Classification:	EAR99
TYPICAL PSAT F	POWER @ 0 dBm INPUT

75S1G6C 1.0 - 6.0 GHz 75 W CW

Rated Power Output	75 W min. (1–6 GHz)
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	Nominal 85 W / min. 65 W
Power Output @ 1 dB compression	Nominal 70 W / min. 50 W
Flatness	±1.0 dB typ. / ±2.5 dB max.
Frequency Response	1–6 GHz instantaneously
Gain (small signal)	51 dB min.
Gain Adjustment (continuous range)	10 dB min. (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance Will operate without damage connected to any load imped foldback circuitry.	
	AM, FM, or pulse modulation ppearing on the input signal.

Minus 20 dBc max. at 75 W for entire band except 2 - 3 GHz



rimary rower (selected duronian	100 – 240 VAC 50/60 Hz, single phase 450 W max.
RF input RF output	Type N female on front panel Type N female on front panel
Remote Interfaces IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24–pin 9–pin Subminiature D Type ST Type B RJ–45
Safety Interlock	15–pin Subminiature D
Cooling F	orced air (self–contained fans)
Weight With Cabinet Without Cabinet	26.5 kg (58.5 lb.) 15.8 kg (34.75 lb.)
Size (WxHxD) With Cabinet 51.0 x 17.0 x Without Cabinet 48.3 x 13.4 x	65.3 cm / 20.1 x 6.7 x 25.7 in. 65.3 cm / 19.0 x 5.3 x 25.7 in.
Export Classification:	3A001
TYPICAL PSAT POWER	© 0 dBm INPUT
	A Preton (400 Dr) unit Administra Admi

	Product Catalog	2024 For Sc	iles, call: 215.723.81	81 For an Ap	plications Enginee	er, call: 800.933.818	31	arworld.us	33
AMETEK	N								

RF Solid State

Universal Series

Microwave Solid State

e Pulse

TWT

Third Order Intercept Point

Noise Figure

Spurious

Harmonic Distortion

Systems

Antennas

56 dBm typ.

Minus 73 dBc typ.

10 dB typ.

as Accessories

Frequency Range **0.8 – 18 GHz**

Power Range **15 - 2000 W**

125S1G6C 1.0 - 6 GHz 125 W CW

Rated Power Output	125 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	
	Nominal 125 W / min. 120 W
Power Output @ 1 dB compression	
·	Nominal 115 W / min. 100 W
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	1.0–6 GHz instantaneously
Gain (small signal)	55 dB min.
Gain Adjustment (continuous range)	10 dB min.
	(4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max
Output Impedance	50 ohms, nominal
Mississisk Televines	

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

	AM, FM, or pulse modulation ppearing on the input signal.
Third Order Intercept Point	58 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion @ 100 W for entire Minus 18 dBc	band except 2 – 3 GHz max at 100 W from 2-3 GHz
Spurious	Minus 73 dBc typ.



Primary Power (selected auto	matically)
	100-240 VAC
	47-63 Hz, single phase,
	1,150 W max
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
Remote Interfaces	
IEEE-488	24–pin
RS-232	9-pin Subminiature
RS-232 (fiber optic)	Type ST
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self–contained fans)
Weight	
With Cabinet	29.5 kg (65 lb.)
Without Cabinet	22.7 kg (50 lb.)
Size (WxHxD)	
With Cabinet 50.3 x 35.5	5 x 65.3 cm / 19.8 x 14.0 x 25.7 in
Without Cabinet 48.3 x 35	5.5 x 65.3 cm / 19 x 14.0 x 25.7 in
Export Classification:	3A001
TYPICAL PSAT F	OWER @ 0 dBm INPUT
Post Lieff 50 0001 125W [Trace Max Or]	
375	1 1000 GHz 77592 W +2 6.000 GHz 144.00 W
275	
225	
13	
3	

250\$1G6C 1 - 6 GHz 250 W CW

Rated Power Output	250 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compress	sion
	Nominal 325 W / min. 225 W
Power Output @ 1 dB compress	
	Nominal 275 W / min. 200 W
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	1.0 – 6 GHz instantaneously
Gain (small signal)	58 dB min.
Gain Adjustment (continuous ra	nge) 10 dB min. (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max
Output Impedance	50 ohms, nominal
	or oscillation when connected to the the aid of foldback circuitry
Modulation Capability Will faithfully reproc	duce AM, FM, or pulse modulation appearing on the input signal
Third Order Intercept Point	60 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion Entire Band at 200 W ex	cept 2-3 GHz; minus 20 dBc max 2-3 GHz; minus 18 dBc max



Spurious	Minus 73 dBc typ
Primary Power (select	ed automatically)
	100 – 240 VAC
	47 – 63 Hz, single phase
	1,750 W max
Connectors	
RF input	Type N female
RF output	Type N female
Remote Interfaces	
IEEE-488	24-pir
RS-232	9–pin Subminiature
RS-232 (fiber optic)	Type S
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	
With Cabinet	58. kg (129 lb.)
Without Cabinet	44.9 kg (99 lb.)
Size (WxHxD)	
	0.3 x 47 x 65.3 cm / 19.8 x 18.5 x 25.7 in
Without Cabinet 4	8.3 x 44.5 x 65.3 cm / 19 x 17.5 x 25.7 in
Export Classification:	3A001
	TYPICAL PSAT POWER © 0dBm INPUT
Fie Indoument Response	Sonalus Utility Help Sociel Per Coloson: 20 17
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	et Resonse Stimulus Utility		
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250			-
200			
150			
100			
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	Start 1 80000 GHz -		5top 6.0

Аметек		uct Catalog	2024 For Sal	es, call: 215.723.81	181 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	35
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 0.8 - 18 GHz

Power Range 15 - 2000 W

500\$1G6C 1 - 6 GHz 500 W CW

Rated Power Output	500 W min.				
Input for Rated Output	1 milliwatt max.				
Power Output @ 3 dB compression					
1	Nominal 525 W / min. 475 W				
Power Output @ 1 dB compression					
1	Nominal 450 W / min. 400 W				
Flatness	±2.0 dB typ. / ±2.5 dB max.				
Frequency Response	1 – 6 GHz instantaneously				
Gain (small signal)	61 dB min.				
Gain Adjustment (continuous range)) 10 dB min.				
Input Impedance	50 ohms, VSWR 2:1 max.				
Output Impedance	50 ohms, nominal				

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 250 W reflected power.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 63 dBm typ.

Harmonic Distortion

Minus 20 dBc max. at 400 W (1 - 6 GHz); except Minus 18 dBc max. at 400 W (2 - 3 GHz)

Primary Power (selected automatically)

200 – 240 VAC 50/60 Hz, single phase 3,900 W

Connectors RF Input RF Output	Type N female on rear panel Type 7–16 DIN female on rear panel
Remote Interfaces	
IEEE-488	24-pin
RS-232	9–pin Subminiature
RS-232 (fiber optic)	Type ST
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D, rear
Cooling	Forced air (self-contained fans)
Weight	177 kg (390 lb.)
Size (WxHxD)	
	: 136.0 x 67.1 cm / 22.6 x 53.5 x 26.5 in
Export Classification:	3A001

•



750S1G6C 1 - 6 GHz 750 W CW

Rated Power Output	750 W min., 1.0 - 4.2 GHz 500 W min., 4.2 - 6.0 GHz
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	
	1 – 4.2 GHz; min. 750 W 4.2 – 6 GHz; min. 550 W
Power Output @ 1 dB compression	
	1 – 4.2 GHz; min. 600 W 4.2 – 6 GHz; min. 450 W
Flatness	±2.0 dB typ. / ±2.5 dB max.
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	59 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 3:1 may limit output to 200 W reflected power.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

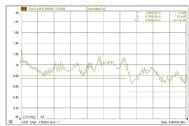
Third Order Intercept Point 67 dBm typ.

Harmonic Distortion

Minus 20 dBc max. at 600 W (1-6 GHz); except Minus 18 dBc max. at 600 W (2-3 GHz)



Primary Power (selected	d automatically)
	200 – 240 VAC 50/60 Hz, single phase 5,200 W
Connectors	
RF Input	Type N female on rear panel
RF Output	Type 7–16 DIN female on rear panel
Remote Interfaces IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24–pin 9–pin Subminiature Type ST Type B RJ–45
Safety Interlock	15–pin Subminiature D, rear
Cooling	Forced air (self–contained fans)
Weight	203 kg (448 lb.)
Size (WxHxD)	
	136.0 x 67.1 cm / 22.6 x 53.5 x 26.5 in
Export Classification:	3A001
туріс	CAL PSAT POWER @ 0 dBm INPUT



		uct Catalog 3	2024 For Sal	les, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	IS	37
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 0.8 - 18 GHz

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Power Range 15 - 2000 W

1000\$1G6C 1 – 6 GHz 1,000 W CW

Rated Power Output	1,000 W min., 1.0 - 5.0 GHz 700 W min., 5.0 - 6.0 GHz
Input for Rated Output	1 milliwatt max.
Power Output	@ 3 dB compression - 5 GHz; Nominal 1,200 W / min. 950 W 5 - 6 GHz; Nominal 800 W / min. 650 W
Power Output	@ 1 dB compression 1 – 5 GHz; Nominal 950 W / min. 800 W 5 – 6 GHz; Nominal 750 W / min. 600 W
Flatness	±2.0 dB typ. / ±2.5 dB max.
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	60 dB min.
Gain Adjustment (conti	nuous range) 10 dB min.
Input Impedance	50 ohms, VSWR 2:1 max
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 250 W reflected power.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point	68 dBm typ.
-----------------------------	-------------

Harmonic Distortion

Minus 20 dBc max. at 800 W (1-6 GHz); Except for Minus 18 dBc max. at 800 W (2-3 GHz)

Primary Power Low Voltage Version High Voltage Version	200 – 240 VAC 380 – 415 VAC 47-63 Hz, 3 phase					
	8,500 W					
Connectors RF Input RF Output	Type N female on rear pane Type 7–16 DIN female on rear pane					
Remote Interfaces IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24-pin 9-pin Subminiature Type ST Type B RJ-45					
Safety Interlock	15–pin Subminiature D, rear					
Cooling	Forced air (self-contained fans)					
Weight	273 kg (600 lb.)					
Size (WxHxD)	57.3 x 136 x 95.5 cm / 22.6 x 53.5 x 37.6 in.					
Export Classification:	3A001					
	TYPICAL PSAT POWER @ 0 dBm					
2k	0 00W (Trace Max Or)					
1.0k						
1.46	m and My monored					
12x Marpath	March Martin					
0.84						

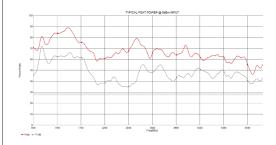
4:PASS

AR-G030 0.8 - 6 GHz 30 W CW

Rated Power Output	30 W
Input for Rated Output	1 milliwatt max.
Saturated Power (min.)	35 W
P1dB (min.)	30 W
Flatness	±3.0 dB
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	45 dB min.
Gain Adjustment (continuous range)	0-30 dB in 255 Steps
nput Impedance	50 ohms
Output Impedance	50 ohms, nominal
Mismatch Tolerance Will operate without damage or os any load impedance without the a	
Modulation Capability	AM, FM, PM, ODFM
Third Order Intercept Point	10 dB > P1dB
Harmonic Distortion	-18 dBc
Primary Power Frequency	90 to 264 VAC
Power	47 - 63 0.35 kVA



GPIB, RS232, Ethernet & USE				
Via rear panel mounted BNC-female				
Forced air (self-contained fans)				
15 kg (33 lb.)				
19 in, 4U, 615 mm				
EAR99				



	Product Catalog 2024		2024 For Sal	For Sales, call: 215.723.8181 For an Applications Engineer, call: 800.933.8181				1 arworld.us		38
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 0.8 - 18 GHz

Power Range 15 - 2000 W

AR-G060 0.8 - 6 GHz 60 W CW

Rated Power Output	60 W	
Input for Rated Output	1 milliwatt max.	
Saturated Power (min.)	60 W	
P1dB (min.)	50 W	
Flatness	±3.0 dB	
Frequency Response	1 – 6 GHz instantaneously	
Gain (small signal)	47 dB min.	
Gain Adjustment (continuous range)	0-30 dB in 255 Steps	
Input Impedance	50 ohms	
Output Impedance	50 ohms, nominal	
Mismatch Tolerance Will operate without damage or oscillation when connected to		

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

AM, FM, PM, ODFM

10 dB > P1dB

Type N female

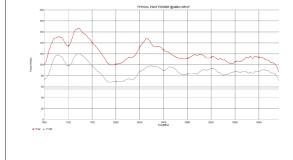
Modulation Capability Third Order Intercept Point Harmonic Distortion

	-18 dBc
Primary Power Frequency Power	90 to 264 VAC 47 - 63 0.65 kVA
Connectors RF Input RF Output	Type N female Type N female

Output			
	Port	Connectors	



Remote (COM) Interfaces	
	GPIB, RS232, Ethernet & USB
Safety Interlock	Via rear panel mounted BNC-female
Cooling	Forced air (self-contained fans)
Weight	20 kg (44 lb.)
Size (WxHxD)	
	19 in, 4U, 615 mm
Export Classification:	3A001



AR-G120 0.8 - 6 GHz 120 W CW

RF Input

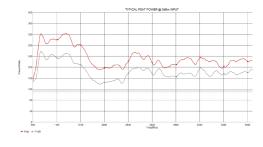
RF Output

RF Sample Port Connectors

120 W
1 milliwatt max.
125 W
100 W
±3.0 dB
1 – 6 GHz instantaneously
47 dB min.
0-30 dB in 255 Steps
50 ohms
50 ohms, nominal
cillation when connected to id of foldback circuitry.
AM, FM, PM, ODFM
10 dB > P1dB
-18 dBc



Remote (COM) Interfaces	
, , ,	GPIB, RS232, Ethernet & USB
Safety Interlock	Via rear panel mounted BNC-female
Cooling	Forced air (self-contained fans)
Weight	28 kg (61 lb.)
Size (WxHxD)	19 in, 4U, 615 mm
Export Classification:	3A001



Аметек	Produ	uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.818	31 arworld.u	IS	39
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contac

Antennas

Type N female

Type N female

Type N female

Accessories Contact

Frequency Range 0.8 - 18 GHz

Power Range 15 - 2000 W

AR-G200 0.8 - 6 GHz 200 W CW

Rated Power Output	200 W
Input for Rated Output	1 milliwatt max.
Saturated Power (min.)	250 W
P1dB (min.)	200 W
Flatness	±3.0 dB
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	53 dB min.
Gain Adjustment (continuous range)	0-30 dB in 255 Steps
Input Impedance	50 ohms
Output Impedance	50 ohms, nominal
Mismatch Toloranco	

Mismatch Tolerance

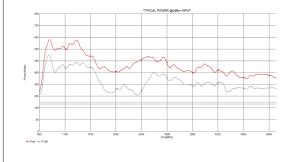
Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

	AM, FM, PM, ODFM
Third Order Intercept Point	10 dB > P1dB
Harmonic Distortion	-18 dBc
Primary Power Frequency Power	90 to 264 VAC 47 - 63 2.5 kVA
Connectors RF Input RF Output RF Sample Port Connectors	Type N female Type N female Type N female



Remote (COM) Interfaces	
	GPIB, RS232, Ethernet & USB
Safety Interlock	Via rear panel mounted BNC-female
Cooling	Forced air (self-contained fans)
Weight	50 kg (110 lb.)
Size (WxHxD)	19 in, 7U, 615 mm
Export Classification:	3A001



AR-G400 0.8 - 6 GHz 400 W CW

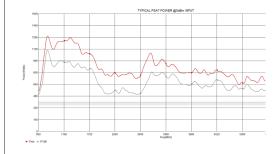
Rated Power Output	400 W
Input for Rated Output	1 milliwatt max.
Saturated Power (min.)	500 W
P1dB (min.)	400 W
Flatness	±3.0 dB
Frequency Response	1 – 6 GHz instantaneously
Gain (small signal)	56 dB min.
Gain Adjustment (continuous range)	0-30 dB in 255 Steps
Input Impedance	50 ohms
Output Impedance	50 ohms, nominal

any load impedance without the aid of foldback circuitry.

Modulation Capability			
	AM, FM, PM, ODFM		
Third Order Intercept Point	10 dB > P1dB		
Harmonic Distortion			
	-18 dBc		
Primary Power			
Single Phase	180 to 265 VAC		
Three Phase			
Low Voltage Version	208 to 240 VAC		
High Voltage Version	380 to 415 VAC		
Power	47 - 63 Hz		
Frequency	5.5 kVA		



Connectors					
RF Input	Type N female				
RF Output	Type 7/16 female Type N female				
RF Sample Port Connectors					
Remote (COM) Interfaces					
	GPIB, RS232, Ethernet & USB				
Safety Interlock	Via rear panel mounted BNC-female				
Cooling	Forced air (self–contained fans)				
Weight					
	160 kg (352 lb.)				
Size (WxHxD)					
	See online spec sheet for size variations				
Export Classification:	3A001				



АМЕТЕК

Product Catalog

2024

For Sales, call: 215.723.8181

For an Applications Engineer, call: 800.933.8181

TWT

arworld.us

Antennas

Contents

Find it Fast RF Solid State

Universal Series

Microwave

Solid State Pulse

Systems

Accessories

Contact

40

Frequency Range 0.8 - 18 GHz

Power Range 15 - 2000 W

2000S1G2z8 1 - 2.8 GHz 2000 W CW

Rated Power Output	2,000 W min.			
Input for Rated Output	1 milliwatt max			
Power Output @ 3 dB compression	1			
	Nominal 2,400 W / min. 1,800 W			
Power Output @ 1 dB compression	1			
	Nominal 1,800 W / min. 1,500 W			
Flatness	±1.5 dB typ. / ±2.0 dB max.			
Frequency Response	1 – 2.8 GHz instantaneously			
Gain (small signal)	67 dB min.			
Gain Adjustment (continuous range	e) 10 dB min.			
Input Impedance	50 ohms, VSWR 2:1 max.			
Output Impedance	50 ohms, nominal			

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 1,000 W reflected power.

Modulation Capability

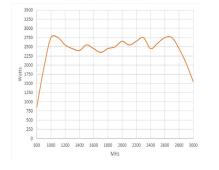
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point	70 dBm typ.		
	Harmonic Distortion Minus 20 dBc max. at 1,500 W		
Primary Power	000 040140		
Low Voltage Version High Voltage Version	200 – 240 VAC 380 – 415 VAC		
nigh vonage version	47 – 63 Hz		
	15,000 W		



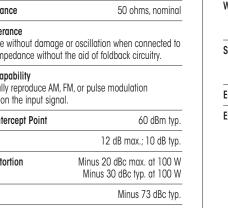
Connectors RF Input RF Output	Type N female on rear panel Type 1-5/8 EIA female on rear panel
Remote Interfaces	04 nin
RS-232	24–pin 9–pin Subminiature
RS-232 (fiber optic)	Type ST
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D, rear
Cooling	Forced air (self-contained fans)
Weight	363 kg (800 lb.)
Size (WxHxD)	
(/	93.8 x 103.1 cm / 22.6 x 76.3 x 40.6 in
Export Classification:	3A001

TYPICAL PSAT POWER @ 0 dBm INPUT



125S1G2z5 1 - 2.5 GHz 125 W CW

Rated Power Output	140 W typ., 125 W min			
Input for Rated Output	1 milliwatt max.			
Power Output @ 3 dB compressior	ı Typ. 130 W, min. 115 W			
Power Output @ 1 dB compression	1 Typ. 110 W, min. 90 W			
Flatness	±1.5 dB typ. / ±2 dB max			
Frequency Response	1 – 2.5 GHz instantaneously			
Gain (at max. setting)	54 dB min			
Gain Adjustment (continuous range	e) 20 dB min			
Input Impedance	50 ohms, VSWR 2:1 max			
Output Impedance	50 ohms, nomina			
Mismatch Tolerance Will operate without damage or any load impedance without the				
Modulation Capability Will faithfully reproduce AM, FM, appearing on the input signal.	or pulse modulation			
Third Order Intercept Point	60 dBm typ.			
Noise Figure	12 dB max.; 10 dB typ			
Harmonic Distortion	Minus 20 dBc max. at 100 V			



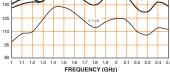
100 - 240 VAC

50/60 Hz

650 W



Connectors					
RF input	Type N female				
RF output	Type N female				
Remote Interfaces					
IEEE-488	24–pin female				
RS-232	9-pin Subminiature D (female) ST Conn Tx and Rx RS-232				
Fiber optic: USB 2	ST Conn IX and KX KS-232 Type B				
Ethernet	R.I-45				
Safety Interlock	15–pin Subminiature D				
Cooling	Forced air (self–contained fans)				
Acoustical Noise @ 1	Meter Front: 60 dBA				
	Side: 59 dBA				
	Rear: 66 dBA				
Weight					
With Cabinet	36.7 kg (81 lb.)				
Without Cabinet	25.4 kg (56 lb.)				
Size (WxHxD)					
With cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in.				
Without Cabinet	48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in.				
Environmental	Storage Temperature –20°C/+50°C				
Export Classification:	EAR99				
	125S1G2z5				
170					
155	Psat				
59 140	P 3dB				
SLLW 125					



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Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	TWT	Systems	Antennas	Accessories

Spurious

Primary Power (selected automatically)

41

Frequency Range 0.8 - 18 GHz

Power Range 15 - 2000 W

250S1G2z5B 1 - 2.5 GHz 250 W CW

Rated Power Output	300 W typ., 250 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compression	
·	Typ. 275 W, min. 250 W
Power Output @ 1 dB compression	
	Typ. 225 W, min. 200 W
Flatness	±1.5 dB typ. / ±2 dB max.
Frequency Response	1 – 2.5 GHz instantaneously
Gain (at max. setting)	56 dB min.
Gain Adjustment (continuous range)) 20 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

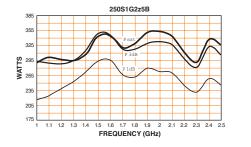
Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point	62 dBm typ.
Noise Figure	12 dB max.; 10 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 200 W Minus 30 dBc typ. at 200 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automo	tically) 100 – 240 VAC 50/60 Hz, single phase 1.200 W max.



Connectors RF input	Type N female on front panel
RF output	Type N female on front panel
Remote Interfaces IEEE-488 RS-232 Fiber optic: USB 2 Ethernet	24–pin female 9–pin Subminiature D (female) ST Conn Tx and Rx RS–232 Type B RJ–45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight With Cabinet Without Cabinet	42.6 kg (94 lb.) 31.3 kg (69 lb.)
Size (WxHxD) With cabinet Without Cabinet	50.3 x 20.5 x 74.9 cm / 19.8 x 8.1 x 29.5 in 48.3 x 17.7 x 74.9 cm / 19 x 7 x 29.5 in
Export Classificatio	n: EAR99

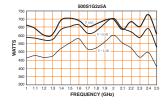


500S1G2z5A 1 - 2.5 GHz 500 W CW

Rated Power Output	550 W nominal, 500 W min.
Input for Rated Output	1 milliwatt max.
Power Output @ 3 dB compressio	
	Nominal 550 W / min. 450 W
Power Output @ 1 dB compressio	n Nominal 400 W / min. 350 W
Flatness	± 1.5 dB typ. / ± 2 dB max.
Frequency Response	1 – 2.5 GHz instantaneously
Gain (small signal)	57 dB min.
Gain Adjustment (continuous rang	e) 20 dB min. (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance Will operate without damage or any load impedance without the	
Modulation Capability Will faithfully reproduc	e AM, FM, or pulse modulation appearing on the input signal.
Third Order Intercept Point	66 dBm typ.
Noise Figure	10 dB typ.
Harmonic Distortion	Minus 20 dBc max. at 350 W Minus 20 dBc typ. at 500 W
Spurious	Minus 73 dBc typ.
Primary Power (selected automation	cally) 100 – 240 VAC 50/60 Hz 2,250 W max.



Environmental Export Classification:	Storage Temperature –20°C/+50°C
	, , , , , , , , , , , , , , , , , , ,
Without Cabinet:	48.3 x 35.5 x 74.9 cm (19 x 14 x 29.5 in)
Size (WxHxD) With cabinet:	50.3 x 37.3 x 74.9 cm (19.8 x 14.7 x 29.5 in)
Without Cabinet	50.3 kg (111 lb.)
Weight With Cabinet	64.9 kg (143 lb.)
Acoustical Noise @ 1	Meter Front: 56 dBA type
Cooling	Forced air (self-contained fans)
Safety Interlock	15–pin Subminiature D
Ethernet	RJ-45
USB 2	Type E
RS–232 Fiber Optic	9-pin Subminiature D (female) ST Conn Tx and Rx RS-232
Remote Interfaces IEEE-488	24–pin female
RF output	Type 7-16 DIN female
Connectors RF input	Type N female



Аметек		uct Catalog 3	2024 For Sa	les, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	42
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Conto

Frequency Range 0.8 - 18 GHz

Power Range 15 - 2000 W

1000S1G2z5B 1 - 2.5 GHz 1000 W CW

1000 W min.
1 milliwatt max.
Nominal 1000 W / min. 925 W
Nominal 850 W / min. 725 W
±1.5 dB typ. / ±2 dB max.
1 – 2.5 GHz instantaneously
60 dB min.
20 dB min. (4096 steps remote)
50 ohms, VSWR 2:1 max
50 ohms, nominal
cillation when connected to any f foldback circuitry.
hfully reproduce AM, FM, or pulse on appearing on the input signal
66 dBm typ.
10 dB typ.
Minus 20 dBc max. at 800 W Minus 20 dBc typ. at 1000 W

Minus 73 dBc typ. Spurious

Primary Power (selected automatically) 200 - 240 VAC 50/60 Hz, single phase

-						
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	2000000000					

Connectors RF input	Type N female on rear panel
RF output	Type 7/8 EIA female on rear panel
Remote Interfaces	
IEEE-488	24–pin female
RS-232	9-pin Subminiature D (female)
RS-232 (fiber optic)	Type ST
USB 2	Туре В
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self–contained fans)
Acoustical Noise @ 1 Mete	er Front: 44 dBA Side: 68 dBA Rear: 72 dBA
Weight	148 kg (325 lbs)
Size (WxHxD) 56.1 x 9	7.8 x 82.5 cm / 22.1 x 38.5 x 32.5 in
Environmental Storage Temperature	-20°C/+50°C
Export Classification:	EAR99
	DS1G2z58 Typical Output Power
1400	A 122286 Typical Output Power
1300	Piat
1200 1200 1150	

2 0 0 0 0

800

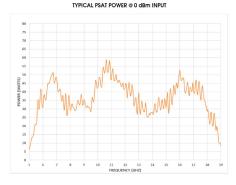
3800 W

20S6G18C 6 - 18 GHz 20 W CW

Rated Power Output	20 W min.
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compression	Nominal 25 W / min. 18 W
Power Output @ 1 dB compression	Nominal 22 W / min. 15 W
Power Gain Flatness (0 dBm IN)	±2 dB typ. / ±2.5 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (small signal)	45 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max
Output Impedance	50 ohms, nominal
Mismatch Tolerance Will operate without damage or o any load impedance withou	
	AM, FM, or pulse modulatior opearing on the input signal
Third Order Intercept Point	49 dBm typ.
Harmonic Distortion	Minus 20 dBc max. at 20 W
Primary Power (selected automatica	lly)

4) microwere instrumentation		
LOGA. PORT	100 Micore	Γ
RENDTE		

Remote Interfaces IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24–pin female 9–pin Subminiature D (female) Type ST Type B RJ–45
Safety Interlock	15–pin Subminiature D
Cooling Weight	Forced air w/cabinet: 29.5 (65 lb.) w/o cabinet: 20.4 kg (45 lb.)
Size (WxHxD) w/cabinet: 50.2	x 20.6 x 63.8 cm (19.8 x 8.1 x 25.1 in.)
	8.3 x 18.8 x 63.8 cm (19 x 7 x 25.1 in.)
Export Classification:	34001



Аметек		uct Catalog	2024 For Sal	les, call: 215.723.81	181 For an Ap	oplications Engine	er, call: 800.933.818	81 arworld.u	S	43
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Conta

Connectors

RF input

RF output

Find it Fast	
--------------	--

Antennas

100 - 240 VAC 50/60 Hz, single phase

600 W max.

Precision N female on front panel

Precision N female on front panel

Accessories Contact

Frequency Range 0.8 - 18 GHz

Power Range 15 - 2000 W

40S6G18C 6 - 18 GHz 40 W CW

Rated Power Output	40 W min.
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compression	Nominal 55 W / min. 35 W
Power Output @ 1 dB compression	Nominal 45 W / min. 25 W
Power Gain Flatness (0 dBm IN)	±2 dB typ. / ±3.0 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (small gain)	51 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point	52 dBm typ.
Harmonic Distortion	Minus 20 dBc max. at 40 W
Primary Power (selected aut	omatically)
, (100 - 240 VAC
	50/60 Hz, single phase
	700 W max.
Connectors	
RF input	Precision N female on front panel
RF output	Precision N female on front panel

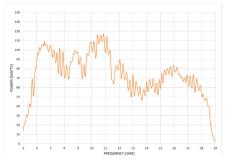


Remote Interfaces IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24-pin female 9-pin Subminiature D (female) Type ST Type B RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air
Weight	w/cabinet: 31.75 (70 lb.) w/o cabinet: 22.7kg (50 lb.)
	20.6 x 63.8 cm (19.8 x 8.1 x 25.1 in.) .3 x 18.8 x 63.8 cm (19 x 7 x 25.1 in.)

3A001

Export Classification:





75S6G18C 6 - 18 GHz 75 W CW

Rated Power Output	75 W min.		
Input for Rated Output	1 milliwatt max., 0 dBm		
Power Output @ 3 dB compression			
Nominal 110 W	/ min. 75 W, 6.0 - 12.0 GHz / min. 65 W, 12.0 - 18.0 GHz		
Power Output @ 1 dB compression			
Nominal 80 W ,	/ min. 60 W, 6.0 - 12.0 GHz / min. 50 W, 12.0 - 18.0 GHz		
Power Gain Flatness (0 dBm IN)	±2.5 dB typ. / ±3.5 dB max.		
Frequency Response	6 – 18 GHz instantaneously		
Gain (small signal)	50 dB min.		
Gain Adjustment (continuous range)	10 dB min.		
Input Impedance	50 ohms, VSWR 2.5:1 max		
Output Impedance	50 ohms, nominal		
Mismatch Tolerance			

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point 54 dBm typ.

Harmonic Distortion

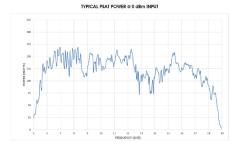
Minus 20 dBc max. at 75 W (6.0 - 12.0 GHz) Minus 20 dBc max. at 65 W (12.0 – 18.0 GHz)

Primary Power (selected automatically)

100 - 240 VAC 50/60 Hz, single phase 1200 W max.



Connectors RF input RF output		Precision N female on front panel Precision N female on front panel
Remote Interfi IEEE-488 RS-232 RS-232 (fib USB 2 Ethernet		24–pin female 9–pin Subminiature D (female) Type ST Type B RJ–45
Safety Interloo	ck	15–pin Subminiature D
Cooling Weight		Forced air w/cabinet: 35 (77 lb.) w/o cabinet: 25.9 kg (57 lb.)
Size (WxHxD)		x 20.6 x 63.8 cm (19.8 x 8.1 x 25.1 in.) 8.3 x 18.8 x 63.8 cm (19 x 7 x 25.1 in.)
Export Classif	ication.	3A001



		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	IS	44
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 0.8 - 18 GHz

Power Range 15 - 2000 W

125S6G18C 6 - 18 GHz 125 W CW

Rated Power Output	125 W min. (6.0 - 12.0 GHz) 100 W min. (12.0 - 18.0 GHz)
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compression	
Nominal 175 V	V / min. 125 W (6.0 - 12.0 GHz) / min. 100 W (12.0 - 18.0 GHz)
	V / min. 100 W (6.0 - 12.0 GHz) V / min. 75 W (12.0 - 18.0 GHz)
Power Gain Flatness (0 dBm IN)	±2.5 dB typ. / ±3.5 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (Small Signal)	52 dB min.
Gain Adjustment (continuous range)	10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 65 watts reflected power.

Modulation Capability

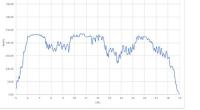
Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. Third Order Intercept Point 56 dBm typ.

Harmonic Distortion @ 125 W, 6.0 - 12.0 GHz, @ 100 W, 12.0 -18.0 GHz

Minus 20 dBc max



Primary Power (selected aut	iomatically)
, (200 - 240 VAC
	50/60 Hz, single phase
	2750 W max.
Connectors	
RF input	Precision N female
RF output	WRD650 (50 Ω), rear
Remote Interfaces	
IEEE-488	24-pin female
RS-232	9-pin Subminiature D (female)
RS-232 (fiber optic)	Type ST
USB 2	Type B
Ethernet	RJ-45
Safety Interlock	15-pin Subminiature D
Cooling	Forced air
Weight	w/cabinet: 84.4 (186 lb.)
•	w/o cabinet: 55.3kg (122 lb.)
Size (WxHxD)	
	.9 x 95.5 cm (22.6 x 38.5 x 37.6 in.)
w/o cabinet: 48.3 x 53.	.3 x 95.5 cm (19.0 x 21.0 x 37.6 in.)
Export Classification:	3A001
TYPICAL P	SAT POWER @ 0dBm INPUT
400.00	
350.00	



250S6G18C 6 - 18 GHz 250 W CW

Rated Power Output	250 W min. (6.0 - 12.0 GHz) 200 W min. (12.0 - 18.0 GHz)
Input for Rated Output	1 milliwatt max., 0 dBm
Power Output @ 3 dB compress	ion W / min. 250 W. 6.0 - 12.0 GHz
	W / min. 200 W, 12.0 - 18.0 GHz
Power Output @ 1 dB compress	ion
Nominal 250	W / min. 200 W, 6.0 - 12.0 GHz V / min. 150 W, 12.0 - 18.0 GHz
Power Gain Flatness (0 dBm IN)	±2 dB typ. / ±3.5 dB max.
Frequency Response	6 – 18 GHz instantaneously
Gain (Small Signal)	55 dB min.
Gain Adjustment (continuous ran	nge) 10 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, nominal

Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry. However, mismatch above 6:1 may limit output to 125 watts reflected power.

Modulation Capability

Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.

Third Order Intercept Point	59 dBm typ.
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Harmonic Distortion

Minus 20 dBc max. at 250 W (6.0 - 12.0 GHz), Minus 20 dBc max. at 200 W (12.0 - 18.0 GHz)

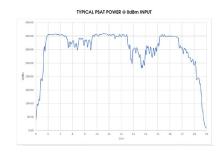


Primary Power (selected au	tomatically)
.,	200 - 240 VAC 50/60 Hz, single phase 4500 W max.
Connectors RF input	Precision N female on front panel
RF output	WRD650 (50 Ω), real
Remote Interfaces IEEE-488 RS-232 RS-232 (fiber optic) USB 2 Ethernet	24–pin female 9–pin Subminiature D (female) Type SI Type B RJ–45
Safety Interlock	15–pin Subminiature D
Cooling Weight	Forced ai w/cabinet: 117 (258 lb.) w/o cabinet: 88 kg (194 lb.)

w/cabinet: 57.4 x 97.9 x 95.5 cm (22.6 x 38.5 x 37.6 in.) w/o cabinet: 48.3 x 53.3 x 95.5 cm (19.0 x 21.0 x 37.6 in.)

Export Classification:





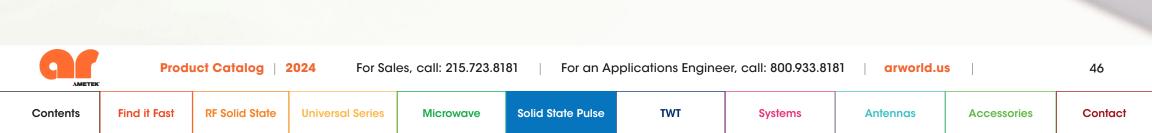
		uct Catalog	2024 For Sale	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	45
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Solid State Pulse Amplifiers

For automotive and military EMC radiated immunity susceptibility testing, as well as radar and communication applications, Solid State Pulsed Amplifiers offer high-power RF levels that rival those of TWTs. However, they offer higher reliability, better mismatch tolerance, much better harmonic distortion, and better MTBF (Mean Time Between Failure) than TWTs.



1300SP1G2



Frequency Range 1 - 4 GHz

Power Range 1 - 18 kW

1000SP0z8G2z5 0.8 - 2.5 GHz 1000 W Pulse

Rated Power Output	1000 W min.
Input for Rated Output	1.0 milliwatt maximum
Flatness	±2.5 dB maximum
Frequency Response	0.8 – 2.5 GHz instantaneously
Gain (small signal)	60 dB min.
Gain Adjustment Continuous	Range 20 dB min.,(4096 steps remote)
Input Impedance	50 ohms, VSWR 2.0:1 max
Output Impedance	50 ohms, nominal
any load impedance Alar	mange or oscillation when connected to m and protection above 250 W reflected ad VSWR > 3:1 at 1 kW; > 6:1 at 500 W.
Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay Pulse Width Distortion	0.1 – 100 microseconds 50 kHz max. 5% max. 30 ns max. (10% – 90%) 1 µs max. from pulse input to RF 90% +25 ns may.

loise Figure	\leq 12 dB max.
Pulse Input	TTL level, 50 ohm nominal termination
Pulse Off Isolation	60 dB min.
	nce between TTL Input Gate and RF pulse)
Pulse Width Distortion	±25 ns max.
Delay	1 µs max. from pulse input to RF 90%
RF Rise and Fall	30 ns max. (10% – 90%)
Duty Cycle	5% max.
Pulse Rate (PRF)	50 kHz max.

Harmonic Distortion

 \leq -15 dBc max. up to 1.4 GHz @ RF power \geq 800 W \leq -20 dBc max. up to 2.5 GHz



€ 1 200

Output power (00 00 00

400

200 600

Spurious	-60 dBc max
Primary Power	100 – 264 VAC 50 – 60 Hz, single phase 700 W max
Connectors RF input RF output RF sample reflected	Type N female on front pane Type N female on front pane Type N female, forward and
Pulse input	Type BNC female on rear pane
Remote Interfaces IEEE-488	24–pin on rear panel
Ethernet RS-232	RJ-45 on rear pane 9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	43 kg (95 lb.)
Size (WxHxD)	50.3 x 19.8 x 71.4 cm, 19.8 x 7.8 x 28.1 ir
Export Classification	n 3A999.c
1 800 1 600 1 400	Typical Output Power (Prat # 0 dBm input)

1400 1600 1800 2000 2200 2400 2600 Frequency (MHz)

2000SP0z8G2z5 0.8 - 2.5 GHz 2000 W Pulse

Rated Power Output	2000 W min.
Input for Rated Output	0 dBm max.
Flatness	± 1.5 dB typ.; ± 2,5 dB max
Frequency Response	0.8 – 2.5 GHz instantaneously
Gain (Small Signal))	63 dB min.
Gain Adjustment	20 dB min (4096 step)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	

Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 500 W reflected power (i.e., load VSWR > 3:1 @ 2 kW; VSWR > 6:1 @ 1 kW)

Pulse Capability

Pulse Width	0.1 – 100 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle	5% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	1 µs max. from pulse input to RF 90%
Pulse Width Distortion	±25 ns max.
(differenc	e between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB min.
Pulse Input	TTL level, 50 ohm nominal termination

Noise Figure

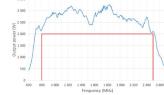
Harmonic Distortion

 \leq -15 dBc max. up to 1.4 GHz @ RF power \geq 1600 W \leq -20 dBc max. up to 2.5 GHz



 \leq 12 dB max.

Spurious	-60 dBc max
Primary Power	100 – 264 VAC 50 – 60 Hz, single phase 1000 W max
Connectors	
RF input	Type N female on front pane
RF output	Type N female on front pane
RF output	forward and reflected sample ports Type N female on rear pane
Pulse input	Type BNC female on rear pane
Remote Interfaces	
IEEE-488	24–pin on rear pane
Ethernet	RJ-45 on rear pane
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	45 kg (99 lb.)
Size (WxHxD)	
	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 ir
Export Classification	3A999.c
	Typical Output Power (Psot # 0 d8m input)
3 500	mum with



		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.81	81 arworld.u	S	47
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 1 - 4 GHz

Power Range 1 - 18 kW

4000SP0z8G2z5

0.8 - 2.5 GHz 4000 W Pulse

Rated Power Output	4000 W min.
Input for Rated Output	0 dBm max.
Flatness	± 1.5 dB typ.; ± 2,5 dB max.
Frequency Response	0.8 – 2.5 GHz instantaneously
Gain (small signal)	66 dB min.
Gain Adjustment	20 dB min (4096 step)
Input Impedance	50 ohms, VSWR \leq 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Pulse Capability

Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 1 kW reflected power (i.e. load VSWR > 3:1 @ 4 kW: VSWR > 6:1 @ 2 kW)

0.1 – 100 microseconds

50 kHz max.

-60 dBc max.

5% max.

Pulse Width	
Pulse Rate (PRF)	
Duty Cycle	
RF Rise and Fall	
Delay	1 us max

Harmonic Distortion	
Noise Figure	\leq 12 dB max.
Pulse Input	TTL level, 50 ohm nominal termination
Pulse Off Isolation	60 dB min.
(differenc	e between TTL Input Gate and RF pulse)
Pulse Width Distortion	±25 ns max.
Delay	1 µs max. from pulse input to RF 90%
RF Rise and Fall	30 ns max. (10% – 90%)
Duly Oyolo	070111074

 \leq -15 dBc max. up to 1.4 GHz @ RF power \geq 3200 W \leq -20 dBc max. up to 2.5 GHz

Spurious

	.C.	· · · = · - Ĵ,
00 W min.	Primary Power	100 – 264 VAC
dBm max.		50 – 60 Hz 1800 W max.
,5 dB max.	Connectors	
ntaneously	RF input RF output	Type N female on front panel Type 7–16 DIN female on front panel
66 dB min.	RF output	forward and reflected sample ports Type N female on rear panel
1096 step)	Pulse input	Type BNC female on rear panel
≤ 2:1 max.	Remote Interfaces	
s, nominal	IEEE-488	24-pin
atad to any	Ethernet RS-232	RJ–45 on rear panel 9-pin subminiature D

Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24–pin
Ethernet	RJ-45 on rear panel
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	86 kg (190 lb.)
Size (WxHxD)	
	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in

Export Classification 3A999.d

8000SP0z8G2z5 0.8 - 2.5 GHz 8000 W Pulse

Rated Power Output	8000 W min
Input for Rated Output	0 dBm max
Flatness	± 1.5 dB typ.; ± 2,5 dB max
Frequency Response	0.8 – 2.5 GHz instantaneously
Gain (small signal)	69 dB min
Gain Adjustment	20 dB min (4096 step)
Input Impedance	50 ohms, VSWR ≤ 2:1 max
Output Impedance	50 ohms, nomina
Mismatch Tolerance Will operate without d to any load impeda	lamage or oscillation when connecter ince. Alarm and protection above 2 kV Id VSWR > 3:1 @ 8 kW; VSWR > 6:1 @
Mismatch Tolerance Will operate without d to any load impeda reflected power (i.e., loa	nce. Alarm and protection above 2 kV
Mismatch Tolerance Will operate without d to any load impeda reflected power (i.e., loa Pulse Capability Pulse Width Pulse Rate (PRF)	nce. Ălarm and protection above 2 kV Id VSWR > 3:1 @ 8 kW; VSWR > 6:1 @ 4 kW 0.1 – 100 microsecond: 50 kHz max
Mismatch Tolerance Will operate without d to any load impeda reflected power (i.e., loa Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay	nce. Ălarm and protection above 2 kV Id VSWR > 3:1 @ 8 kW; VSWR > 6:1 @ 4 kW 0.1 – 100 microseconds 50 kHz max 5% max 30 ns max. (10%–90% 1 µs max. from pulse input to RF 90%
Mismatch Tolerance Will operate without d to any load impeda reflected power (i.e., loa Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay Pulse Width Distortion (difference Pulse Off Isolation	nce. Ålarm and protection above 2 kV Id VSWR > 3:1 @ 8 kW; VSWR > 6:1 @ 4 kW 0.1 – 100 microseconds 50 kHz max 5% max 30 ns max. (10%–90%)

 \leq -15 dBc max. up to 1.4 GHz @ RF power \geq 6400 W

 \leq -20 dBc max. up to 2.5 GHz



Spurious	-60 dBc max
Primary Power	100 – 264 VAC 50 – 60 Hz, single phase 2500 W max.
Connectors RF input RF output RF output	Type N female on rear pane Type 7–16 DIN female on rear pane forward and reflected sample ports Type N female on rear pane
Pulse input	Type BNC female on rear panel
Remote Interfaces IEEE–488 Ethernet RS-232	24-pin RJ-45 on rear pane 9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self–contained fans)
Weight	137 kg (301 lb.)
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in
Export Classification	3A999.d

Аметек	Prode	uct Catalog 3	2024 For Sal	es, call: 215.723.81	181 For an Ap	plications Engine	er, call: 800.933.81	81 arworld.u	S	48
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range **1 – 4 GHz** Power Range **1 - 18 kW**

1300SP1G2 1 - 2 GHz 1300 W Pulse

Duty Cycle RF Rise and Fall Delay Pulse Width Distortion (diffe Pulse Off Isolation Pulse Input Noise Figure Harmonic Distortion	30 ns max. (10% – 90%) 1 µs max. from pulse input to RF 90% ±25 ns max. erence between TTL Input Gate and RF pulse) 60 dB min. TTL level, 50 ohm nominal termination <12 dB max.
RF Ŕise and Fall Delay Pulse Width Distortion (diffe Pulse Off Isolation	1 µs max. from pulse input to RF 90% ±25 ns max. rence between TTL Input Gate and RF pulse) 60 dB min.
RF Rise and Fall	
Pulse Capability Pulse Width Pulse Rate (PRF)	0.1 – 50 microseconds 50 kHz max. 6% max.
any load impedance.	ut damage or oscillation when connected to Alarm and protection above 325 W reflected (load VSWR > 3:1 @ 1.3 kW; >6:1 @ 650 W.
Output Impedance	50 ohms, nominal
Input Impedance	50 ohms, VSWR 2:1 max.
Gain Adjustment Continu	ious Range 20 dB min., (4096 steps remote)
Gain (Small Signal)	61.2 dB min.
Frequency Response	1 – 2 GHz instantaneously
1 10111033	±1.5 dB typ. / ±2.5 dB max.
Flatness	1 milliwatt max.
Input for Rated Output	

-20 dBc max. up to 1.2 GHz @800W; -20 dBc max. from 1.2 GHz-2 GHz



Spurious	Minus 60 dBc max
Primary Power	100 – 264 VAC 50/60 Hz, single phase 500 W max
Connectors	
RF input RF output RF output forward and refle	
Dulas invest	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces IEEE-488 Ethernet	24-pin
RS-232	110 10
Entonitor	9-pin subminiature D
RS-232	RJ-45 9-pin subminiature D 15-pin Subminiature D Forced air (self-contained fans)
RS-232 Safety Interlock	9-pin subminiature D 15-pin Subminiature D
RS-232 Safety Interlock Cooling Weight Size (WxHxD)	9-pin subminiature D 15-pin Subminiature D Forced air (self-contained fans)

2000SP1G2 1 - 2 GHz 2000 W Pulse

Rated Power Output	2000 W min.
Input for Rated Outpu	t 1 milliwatt max.
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	1 – 2 GHz instantaneously
Gain (Small Signal)	63 dB min.
Gain Adjustment Continue	ous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
any load impedance	50 ohms, nominal at damage or oscillation when connected to be Alarm and protection above 500 W ad VSWR > 3:1 @ 2 kW; >6:1 @ 1 kW).
Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay Pulse Width Distorti ±25 ns max	. (difference between TTL Input Gate and RF
Pulse Off Isolation Pulse Input	pulse) 60 dB min. TTL level, 50 ohm nominal termination
Noise Figure	<12 dB max.
Harmonic Distortion	–15 dBc max. up to 1.2 GHz (@ ≥1300 W); –20 dBc max. up to – 2 GHz
Spurious	Minus 60 dBc max.



Primary Power	100 – 264 VAC
	50/60 Hz, single phase
	800 W max
Connectors	
RF input	Type N female on front pane
RF output	Type N female on front pane
RF output forward and reflected	sample ports
	Type N female on rear pane
Pulse input	Type BNC female on rear pane
Remote Interfaces	
IEEE-488	24-pir
Ethernet	RJ-45
RS-232	9-pin subminiature E
Safety Interlock	15–pin Subminiature E
Cooling	Forced air (self-contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	
50.3 x 19.8	8 x 71.4cm / 19.8 x 7.8 x 28.1 in
Export Classification	34999.0

Аметек		uct Catalog 3	2024 For Sal	les, call: 215.723.8	181 For an Ap	plications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	IS	49
Contents	Find it Fast	RE Solid State	Universal Series	Microwaye	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 1 - 4 GHz

Power Range 1 - 18 kW

8000SP1G2 1 - 2 GHz 8000 W Pulse

Rated Power Output	8000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	1–2 GHz instantaneously
Gain (Small Signal)	69 dB min.
Gain Adjustment Continuous Rang	e 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 2 kW reflected power (load VSWR > 3:1 @ 8 kW; >6:1 @ 4 kW)

Pulse Capability

Minus	15 dBc max., up to 1.2 GHz @ ≥5000 W Minus 20dBc max., up to 2 GHz
Harmonic Distortion	
Noise Figure	12 dB max.
Pulse Off Isolation Pulse Input	60 dB min. TTL level, 50 ohm nominal termination
(difference	ce between TTL Input Gate and RF pulse) RF pulse)
Pulse Width Distortion	±25 ns max.
Delay	1 µs max. from pulse input to RF 90%
RF Rise and Fall	30 ns max. (10% – 90%)
Pulse Rate (PRF) Duty Cycle	50 kHz max. 6% max.
Pulse Width	0.1 – 50 microseconds

Minus 60 dBc max.

Spurious

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N. C.				

Primary Power	100 – 264 VAC 50/60 Hz, 2400 W max
Connectors	2400 W Hida
RF input	Type N female on front panel
RF output	Type 7–16 DIN female on rear panel
	I reflected sample ports
	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	122 kg (268 lb.)
Size (WxHxD)	
· · ·	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in
Export Classification	3A999.d

4000SP1z2G1z4 1.2 – 1.4 GHz 4000 W Pulse

Rated Power Output	4000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ./±2 dB max
Frequency Response	1.2 – 1.4 GHz instantaneously
Gain (Small Signal)	66 dB min.
Gain Adjustment Continuou	ıs Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nomina
Pulse Capability Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz max.
Duty Cycle RF Rise and Fall	6% max.
RF Rise and Fall Delay	30 ns max. (10% – 90%) 1 µs max. from pulse input to RF 90%
Pulse Width Distortion	
(differe	nce between TTL Input Gate and RF pulse)
Pulse Off Isolation	RF pulse) 60 dB min
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	8 dB max
Harmonic Distortion	Minus 30 dBc max. @ rated power
Spurious	Minus 60 dBc max



Primary Power	100 – 264 VAC
	50/60 Hz, single phase
	1100 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type 7–16 DIN female on front panel
RF output forward and refl	ected sample ports
	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	
50).3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in.

	Produ	uct Catalog 3	2024 For Sal	es, call: 215.723.81	181 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	S	50
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 1 - 4 GHz

Power Range 1 - 18 kW

6000SP1z2G1z4

1.2 - 1.4 GHz 6000 W Pulse

Rated Power Output	6000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ. / ±2 dB max.
Frequency Response	1.2 – 1.4 GHz instantaneously
Gain (Small Signal)	67.8 dB min.
Gain Adjustment Continuous Range	e 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 1.5 kW reflected power (load VSWR > 3:1 @ 6 kW; >6:1 @ 3 kW).

Pulse	Capability

Spurious	Minus 60 dBc max.
Harmonic Distortion	Minus 30 dBc max. at rated power
Noise Figure	8 dB max.
Pulse Input	TTL level, 50 ohm nominal termination
Pulse Off Isolation	60 dB min.
Pulse Width Distortion	±25 ns max. (ce between TTL Input Gate and RF pulse
Delay	$\leq 1 \mu s$ max. from pulse input to RF 90%
RF Rise and Fall	30 ns max. (10% – 90%)
Duty Cycle	6% max.
Pulse Rate (PRF)	50 kHz max.
Pulse Width	0.1 – 50 microsecondss



Primary Power	100 – 264 VAC 50/60 Hz, single phase
	1400 W max.
Connectors	
RF input	Type N female on rear panel
RF output	Type 7–16 DIN female on rear panel
RF output forward a	ind reflected sample ports
	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45
RS-232	9-pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	
× /	50.3 x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1 in
Export Classification	34999

1000SP2G4 2 – 4 GHz 1000 W Pulse

Rated Power Output	1000 W min.
Input for Rated Output	1 milliwatt max
Flatness	±1.5 dB typ. / ±2.5 dB at rated power
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	60 dB min
Gain Adjustment Continuo	us Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max
Output Impedance	50 ohms, nomina
Pulse Capability Pulse Width	(load VSWR > 3:1 @ 1 kW; >6:1 @ 500 W 0.1 - 50 microseconds
Pulse Rate (PRF) Duty Cycle	50 kHz max 6% max
RF Rise and Fall Delay Pulse Width Distortio	
Pulse Off Isolation Pulse Input	ence between TTL Input Gate and RF pulse; 60 dB min TTL level, 50 ohm nominal termination
Noise Figure	15 dB max
Harmonic Distortion	≤−15dBc up to 2.3GHz@700 W $≤$ −20dBc up to 4 GHz
Spurious	Minus 60 dBc max



700 W max.
ype N female on front panel
pe N female on front panel
le ports
ype N female on rear panel
e BNC female on rear panel
24–pin
RJ-45
9-pin subminiature D
15–pin Subminiature D
ed air (self–contained fans)
38 kg (83 lb.)
4 cm / 19.8 x 7.8 x 28.1 in.
3A999.d

		uct Catalog	2024 For Sal	es, call: 215.723.81	181 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	51
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 1 - 4 GHz

Power Range 1 - 18 kW

2000SP2G4 2 – 4 GHz 2000 W Pulse

Rated Power Output	2000 W min.
Input for Rated Output Flatness	1 milliwatt max. ±1.5 dB typ. / ±2.5 dB at rated power
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	63 dB min.
Gain Adjustment Continuous	Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance	

Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 500 W reflected power (load VSWR > 3:1 @ 2 kW; > 6:1 @ 1 kW)

Pulse	Capability

Spurious	Minus 60 dBc typ.
Harmonic Distortion	–15 dBc max up to 2.3 GHz @ ≥1300 W; –20dBc max up to 4 GHz
Noise Figure	12 dB typ.
Pulse Off Isolation Pulse Input	60 dB min. TTL level, 50 ohm nominal termination
Pulse Width Distorti	on ±25 ns max. ence between TTL Input Gate and RF pulse)
Delay	1 µs max. from pulse input to RF 90%
Duty Cycle RF Rise and Fall	6% max. 30 us max. (10% – 90%)
Pulse Rate (PRF)	50 kHz max.
Pulse Width	.1 – 50 microseconds
Pulse Capability	1 50 1



Primary Power	100 – 264 VAC
	50/60 Hz
	800 W max
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
RF output forward and reflecte	d sample ports
	Type N female on rear panel
Pulse input	Type BNC female on rear panel
	Remote Interfaces
IEEE-488	24–pir
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	35 kg (76 lb.)
Size (WxHxD)	
	x 71.4 cm / 19.8 x 7.8 x 28.1 in
5U.3 X 19.8	

5000SP2G4 2 – 4 GHz 5000 W Pulse

Rated Power Output	5000 W min.
Input for Rated Output	1 milliwatt max.
Pulse Droop:	–0.8dB max @5000W for a 50µs pulse
Flatness	±1.5 dB typical; ±2.5 dB maximum
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	67 dB min.
Gain Adjustment Continuou	s Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 maximum
Output Impedance	50 ohms, nomina
	without the aid of foldback circuitry. Alarm ve 1.25 kW reflected power (load VSWR > 3:1 @ 5 kW; >6:1 @ 2.5 kW)
Pulse Width Distortion Pulse Off Isolation	0.1–50 microseconds 50 kHz maximum 6% maximum 30 ns max (10% to 90%) µs maximum from pulse input to RF 90% ±25 ns maximum (difference between TTL Input Gate and RF pulse) 60 dB minimum
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	15 dB typ



Harmonic Distortion	–15dBc up to
	2.3GHz@3200W;
	–20dBc up to 4 GHz
Spurious	Minus 60 dBc max.
Primary Power	100–264 VAC
	50/60 Hz
	2000 watts maximum
Connectors	
RF input	Type N female on front panel
RF output	Type 7–16 DIN female on rear panel
RF output forward an	nd reflected sample ports
	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24 pin
RS-232	9 pin subminiature D
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	98 kg (215 lb.)
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in.
Export Classification	3A999.d

	Produ	uct Catalog 3	2024 For Sale	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	s	52
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 1 - 4 GHz

Power Range 1 - 18 kW

7000SP2G4 2 – 4 GHz 7000 W Pulse

Rated Power Output	7000 W min.
Input for Rated Output	0 dBm max.
Pulse Droop:	–0.8dB max @7000W for a 50µs pulse
Flatness	±1.5 dB typical; ±2.5 dB maximum
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal))	68.5 dB min.
Gain Adjustment Continue	ous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 maximum
Output Impedance	50 ohms, nominal
Output Impedance	50 onms, nomine

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance. Alarm and protection above 1.75 kW reflected power (load VSWR > 3:1 @ 7 kW; >6:1 @ 3.5 kW).

Pulse Capability	
Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF)	50 kHz maximum
Duty Cycle	6% maximum.
RF Rise and Fall	30 ns max (10% – 90%).
Delay	1 µs maximum from pulse input to RF 90%
Pulse Width Distortion	±25 ns maximum (difference
	between TTL Input Gate and RF pulse)
Pulse Off Isolation	60 dB minimum
Pulse Input	TTL level, 50 ohm nominal termination
Noise Figure	15 dB typ.



Harmonic Distortion	-15dBc up to
	2.3 GHz@4500 W;
	–20 dBc up to 4 GHz
Spurious	≤ - 60 dBc max.
Primary Power	100 – 264 VAC, 50 – 60 Hz,
	2800 watts maximum
Connectors	
RF Input	Type N female
RF Output	Type 7-16
DIN RF Sample	output forward and reflected sample ports
	Type N female, rear
PULSE INPUT	Type BNC female, rear
Remote Interfaces	
IEEE-488	24 pin
RS-232	9 pin subminiature D
Ethernet	RJ-45
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self–contained fans)
Weight	114 kg / 250 lbs
Size (WxHxD)	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in
Export Classification	3A999.d

10000SP2G4 2 - 4 GHz 10000 W Pulse

Rated Power Output	10000 W
Input for Rated Output	t 1 milliwatt max.
Flatness	±1.5 dB typ. / ±2.5 dB max.
Frequency Response	2 – 4 GHz instantaneously
Gain (Small Signal)	70 dB min
Gain Adjustment Continuc	ous Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nomina
Pulse Capability Pulse Width	1
Pulse Rate (PRF) Duty Cycle s RF Rise and Fall Delay Pulse Width Distortic	50 kHz max ≤5% @ rated power, ≤6% @ 8kW maximum 30 ns max. (10% – 90%) ≤ 1µs max. from pulse input to RF 90% on ±25 ns max. (difference between TTL Input Gate and RF
Duty Cycle ≦ RF Rise and Fall Delay	1 µs-50 microseconds 50 kHz max. 5% @ rated power. ≤6% @ 8kW maximum 30 ns max. (10% - 90%) ≤ 1µs max. from pulse input to RF 90% on ±25 ns max. (difference between TTL Input Gate and RF pulse) 60 dB min. TTL level, 50 ohm nominal termination 15 dB typ



Spurious	Minus 60 dBc max
Primary Power	
	100 – 264 VAC
	50/60 Hz
	3600 W max
Connectors	
RF input	Type N female on rear pane
RF output	Type 7–16 DIN female on rear pane
RF output forward and	reflected sample ports
	Type N female on rear pane
Pulse input	Type BNC female on rear pane
Remote Interfaces	
IEEE-488	24–pir
Ethernet	RJ-45
RS-232	9 pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	137 kg (301 lb.)
Size (WxHxD)	
	50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 33 in
Export Classification	3A001

	Produ	uct Catalog 3	2024 For Sale	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.818	31 arworld.u	s	53
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 1 - 4 GHz

Power Range 1 - 18 kW

4000SP2z7G3z1 2.7 - 3.1 GHz 4000 W Pulse

Rated Power Output	4000 W min.
Input for Rated Output	0 dBm max.
Flatness	±1 dB typ. / ±2 dB max.
Frequency Response	2.7 – 3.1 GHz instantaneously
Gain (Small Signal)	66 dB min.
Gain Adjustment Continuous Rang	ge 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
	e or oscillation when connected rm and protection above 1 kW
Will operate without damage to any load impedance. Ala reflected power (load VSWR	e or oscillation when connected rm and protection above 1 kW R > 3:1 @ 4 kW; >6:1 @ 2 kW).
Will operate without damage to any load impedance. Ala reflected power (load VSWF Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay ≤1 µ Pulse Width Distortion	rm and protection above 1 kW
Will operate without damage to any load impedance. Ala reflected power (load VSWF Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay ≤1 µ Pulse Width Distortion (difference be Pulse Off Isolation	rm and protection above 1 kW 2 > 3:1 @ 4 kW; >6:1 @ 2 kW). 0.1 - 50 microseconds 50 kHz max. 6% max. 30 ns max. (10% - 90%) us max. from pulse input to RF 90% ±25 ns max. tween TTL Input Gate and RF pulse)
Will operate without damage to any load impedance. Ala reflected power (load VSWF Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay ≤1 µ Pulse Width Distortion (difference be	rm and protection above 1 kW 2 > 3:1 @ 4 kW; >6:1 @ 2 kW). 0.1 - 50 microseconds 50 kHz max. 6% max. 30 ns max. (10% - 90%) us max. from pulse input to RF 90% ±25 ns max. tween TTL Input Gate and RF pulse) 60 dB min. 8 dB max.



Primary Power	
	100 – 264 VAC
	50/60 Hz, single phase
	2000 W max.
Connectors	
RF input	Type N female on rear panel
RF output	Type 7–16 DIN female on rear panel
RF output forward and ref	
	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pin
Ethernet	RJ-45
RS-232	9 pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	43 kg / 95 lbs
Size (WxHxD)	
` 50.3	x 19.8 x 71.4 cm / 19.8 x 7.8 x 28.1
	in
Export Classification	3A999.d

8000SP2z7G3z1 2.7 - 3.1 GHz 8000 W Pulse

Rated Power Output	
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ./±2 dB max.
Frequency Response	2.7 – 3.1 GHz instantaneously
Gain (small signal)	69 dB min.
Gain Adjustment Continuous Ra	inge 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
Mismatch Tolerance Will operate without dam	age or oscillation when connected
Will operate without dam to any load impedance. A reflected power (load VS)	age or oscillation when connected Narm and protection above 2 kW NR > 3:1 @ 8 kW; >6:1 @ 4 kW).
Will operate without dam to any load impedance. A reflected power (load VSV Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay ≤ Pulse Width Distortion	Narm and protection above 2 kW NR > 3:1 @ 8 kW; >6:1 @ 4 kW). 0.1 - 50 microseconds 50 kHz max. 6% max. 30 ns max. (10% - 90%) 1 µs max. from pulse input to RF 90%
Will operate without dam to any load impedance. A reflected power (load VSV Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay ≤ Pulse Width Distortion (difference	Narm and protection above 2 kW NR > 3:1 @ 8 kW; >6:1 @ 4 kW). 0.1 - 50 microseconds 50 kHz max. 6% max. 30 ns max. (10% - 90%) 1 µs max. from pulse input to RF 90% ±25 ns max. between TTL Input Gate and RF pulse) 60 dB min.
Will operate without dam to any load impedance. A reflected power (load VSV Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay ≤ Pulse Width Distortion (difference Pulse Off Isolation	Narm and protection above 2 kW NR > 3:1 @ 8 kW; >6:1 @ 4 kW). 0.1 - 50 microseconds 50 kHz max. 6% max. 30 ns max. (10% - 90%) 1 μs max. from pulse input to RF 90% ±25 ns max. between TTL Input Gate and RF pulse)



Primary Power	100 – 264 VAC
	50/60 Hz, 3800 W max.
Connectors	
RF input	Type N female on front pane
RF output	Type 7–16 DIN female on rear pane
RF output forward and re	flected sample ports
	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24-pir
Ethernet	RJ-45
RS-232	9 pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self–contained fans)
Weight	94 kg (207 lb.)
Size (WxHxD)	
	50.3 x 50.8 x 79.5 cm / 19.8 x 20 x 31.3 in
Export Classification	3A999 d

Аметек	Produ	uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	S	54
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 1 - 4 GHz

Power Range 1 - 18 kW

12000SP2z7G3z1 2.7 - 3.1 GHz 12000 W Pulse

Rated Power Output	12000 W min.
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ./±2 dB max.
Frequency Response	2.7 – 3.1 GHz instantaneously
Gain (small signal)	71 dB min.
Gain Adjustment Continuous	Range 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, nominal
(load VSWR > 3:1 @ 1: Pulse Capability	· /
Pulse Width	0.1 – 50 microseconds
Pulse Rate (PRF) Duty Cycle	50 kHz max. 6% max
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	
Pulse Width Distortion	$\leq 1 \mu s$ max. from pulse input to RF 90%
(differenc	±25 ns max.
	±25 ns max. e between TTL Input Gate and RF pulse)
Pulse Off Isolation	±25 ns max.
Pulse Off Isolation	±25 ns max. e between TTL Input Gate and RF pulse)
	±25 ns max. e between TTL Input Gate and RF pulse) 60 dB min.
Pulse Off Isolation Noise Figure	±25 ns max. e between TTL Input Gate and RF pulse) 60 dB min. 8 dB max.



Cooling Forced air (self-contained f
6000 W r 6000 W r Connectors RF input Type N female on rear p RF output Type 7–16 DIN female on rear p RF output forward and reflected sample ports Type N female on rear p Pulse input Type BNC female on rear p Remote Interfaces IEEE–488 24 Ethernet RJ RS-232 9 pin subminiatu Safety Interlock 15–pin Subminiatu Cooling Forced air (self–contained female on the second secon
Connectors RF input Type N female on rear p RF output Type 7–16 DIN female on rear p RF output Type 7–16 DIN female on rear p RF output forward and reflected sample ports Type N female on rear p Pulse input Type BNC female on rear p Remote Interfaces IEEE-488 24 Ethernet RJ RS-232 9 pin subminiatu Safety Interlock 15–pin Subminiatu Cooling Forced air (self-contained female for the second second second female for the second sec
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RF output forward and reflected sample ports Type N female on rear p Pulse input Type BNC female on rear p Remote Interfaces IEEE-488 24 Ethernet RJ RS-232 9 pin subminiatu Safety Interlock 15-pin Subminiatu Cooling Forced air (self-contained female statements)
Type N female on rear p Pulse input Type BNC female on rear p Remote Interfaces 24 IEEE-488 24 Ethernet RJ RS-232 9 pin subminiatu Safety Interlock 15-pin Subminiatu Cooling Forced air (self-contained female)
Pulse input Type BNC female on rear p Remote Interfaces 24 IEEE-488 24 Ethernet RJ RS-232 9 pin subminiatu Safety Interlock 15-pin Subminiatu Cooling Forced air (self-contained free)
Remote Interfaces IEEE-488 24 Ethernet RJ RS-232 9 pin subminiatu Safety Interlock 15-pin Subminiatu Cooling Forced air (self-contained free)
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RS-232 9 pin subminiatu Safety Interlock 15-pin Subminiatu Cooling Forced air (self-contained fr
Safety Interlock 15-pin Subminiatu Cooling Forced air (self-contained free)
Cooling Forced air (self-contained f
Cooling Forced air (self-contained f
Weight 114 kg (250
Size (WxHxD)
50.3 x 53.3 x 83.8 cm / 19.8 x 21 x 3
Export Classification 3A99

1500/1000SP1z2G3z1 1.2 – 1.4 GHz, 1500 W Pulse 2.7 - 3.1 GHz, 1000 W Pulse

	1500 W min. 1.2-1.4 GHz 1000W min. 2.7-3.1 GHz
Input for Rated Output	1 milliwatt max.
Flatness	±1 dB typ./±2 dB max.
Frequency Response	1.2 - 1.4 GHz 2.7 – 3.1 GHz
Gain (small signal)	61.8 dB min.,1.2 - 1.4 GHz 60 dB min., 2.7 - 3.1 GHz
Gain Adjustment Continuous Ran	ige 20 dB min., (4096 steps remote)
Input Impedance	50 ohms, VSWR 2.0:1 max.
Output Impedance	50 ohms, nominal
any load impedance. Alarr	ige or oscillation when connected to
3:1 @ 1.5 kW (low band)/ 750 W (low band)/500 W	reflected power (i.e., load VSWR > '1 kW (high band); VSWR > 6:1 @
3:1 @ 1.5 kW (low band)/	reflected power (i.e., load VSWR > '1 kW (high band); VSWR > 6:1 @
3:1 @ 1.5 kW (low band)/ 750 W (low band)/500 W Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay ≤1 Pulse Width Distortion	reflected power (i.e., load VSWR > '1 kW (high band); VSWR > 6:1 @
3:1 @ 1.5 kW (low band)/ 750 W (low band)/500 W Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay ≤1 Pulse Width Distortion (difference b	reflected power (i.e., load VSWR > '1 kW (high band); VSWR > 6:1 @ (high band). 0.1 - 50 microseconds 50 kHz max. 6% max. 30 ns max. (10% - 90%) µs max. from pulse input to RF 90% ±25 ns max. etween TTL Input Gate and RF pulse)

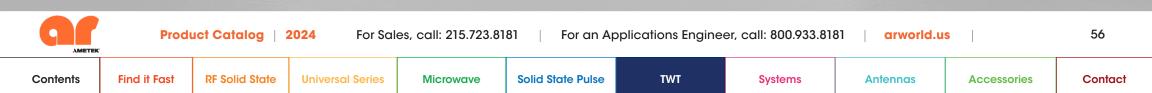


Spurious	Minus 60 dBc max
Primary Power	100 – 264 VAC
•	50/60 Hz
	750 W max.
Connectors	
RF input	Type N female on front panel
RF output	Type N female on front panel
RF output forward ar	nd reflected sample ports
	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Remote Interfaces	
IEEE-488	24–pir
Ethernet	RJ-45
RS-232	9 pin subminiature D
Safety Interlock	15–pin Subminiature D
Cooling	Forced air (self-contained fans)
Weight	40 kg (87 lb.)
Size (WxHxD)	
· · ·	50.3 x 19.8 x 71.4 cm (19.8 x 7.8 x 28.1 in.)
	3A999.c

		uct Catalog 3	2024 For Sal	es, call: 215.723.81	181 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	55
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

CW and Pulse Microwave TWT amplifiers offer up to 20000 W and are compliant with the most stringent specifications and standards.





Frequency Range **2.5 – 50 GHz**

Power Range **40 W - 20 kW**

300T2G8 2.5 – 7.5 GHz 300 W CW

Nominal	damental), CW @ Out	put Connector 350 W / min. 300 W 75 W min.			
Flatness ±12 dB max, equalized for ±5 dB max. at rated power					
Frequency	Response	2.5 – 7.5 GHz instantaneously			
Input for R	ated Output	1 milliwatt max.			
Gain (at m	ax. setting)	55 dB min.			
Gain Adjus	tment (continuous ran	ge) 35 dB min.			
Input Impe	dance	50 ohms, VSWR 2:1 max.			
Output Imp	edance	50 ohms, VSWR 2.5:1 typ.			

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 60 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability

Pulse Width	0.05 microseconds min.
Pulse Rate (PRF)	100 kHz max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse width distortion	±30 ns max. (50% points of output
	pulse width compared to 50%
	points of input pulse width)
	,



s 75 dBm/Hz max., Minus 80 dBm/Hz typ.					
Minus 140 dBm/Hz typ.					
Minus 3 dBc max., Minus 4.5 dBc typ.					
190 – 260 VAC 50/60 Hz, single phase 3 kVA max.					
Type N female on rear panel					
Type N female on rear pane					
Type N female on rear panel DB-15 female on rear panel					
BNC-female on rear panel					
Video BNC-female on rear par GPIB IEEE-488 female on rear par					
contained fans), air entry and exit in rear.					
54 kg (120 lb.)					
3 x 29.7 x 68.6 cm / 19.8 x 11.7 x 27 in					
300T2G8					
3001200					
cw					

500T2G8 2.5 – 7.5 GHz 500 W CW

Power (fundamental), CW	@ Output Connector		
Nominal	541 W / min. 500 W		
Linear @ 1 dB Compress	ion 125 W min.		
Flatness ±8 dB max, ec	qualized for ± 5 dB max. at rated power		
Frequency Response	2.5 – 7.5 GHz instantaneously		
Input for Rated Output 1 millio			
Gain (at max. setting)	57 dB min.		
Gain Adjustment (continuo	us range) 35 dB min.		
Input Impedance	50 ohms, VSWR 2:1 max.		
Output Impedance	50 ohms, VSWR 2.5:1 typ.		
Mismatch Tolerance			

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 100 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

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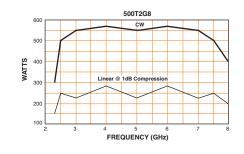
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Noise Power Density

Minus	85 dBm/Hz max., Minus 95 dBm/Hz typ.
Harmonic Distortion	Minus 3 dBc max., Minus 3.5 dBc typ.
Primary Power	See Model Configurations
Connectors RF input RF output RF output sample port Interlock Video GPIB	Type N female on rear panel 7–16 DIN female on rear panel Type N female on rear panel DB–15 female on rear panel BNC-female on rear panel IEEE–488 female on rear panel



Cooling Forced air ((self-contained fans), air entry and exit in rear.
Weight	55 kg (120 lb.)
Size (WxHxD)	50.8 x 25.4 x 68.6 cm / 20 x 10 x 27 in.



Accessories

				Ρ	ro	d	u
MET	EK'						

ict Catalog | 2024

For Sales, call: 215.723.8181

inear @ 1dB Com

FREQUENCY (GHz)

For an Applications Engineer, call: 800.933.8181

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57

Contents

Find it Fast RF So

RF Solid State Universal Series

NATTS 300

200

Microwave Solid State Pulse

ulse TWT

Systems 3 1

Antennas

Contact

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

1000T2G8B 2.5 - 7.5 GHz 1000 W CW

Power (fundamental), CW, @ Output Connector						
Nomina	I 1,100	W / min. 900 W, 2.5 - 2.7 GHz,				
		1000 W, 2.7 – 7.5 GHz				
Linear @	I dB Compression	250 W min.				
Flatness	±8 dB max., equalize	ed for ± 3 dB max. at rated power				
Frequency	Response	2.5 – 7.5 GHz instantaneously				
Input for R	ated Output	1 milliwatt max.				
Gain (at m	iax. setting)	60 dB min				
Gain Adju	stment (continuous rang	ge) 35 dB min.				
Input Impedance 50 ohms, VSWR 2						
Output Im	pedance	50 ohms, VSWR 2.5:1 typ				

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 200 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 80 dBm/Hz max., Minus 90 dBm/Hz typ.

Harmonic Distortion

Minus 15 dBc max., Minus 17 dBc typ.

Primary Power

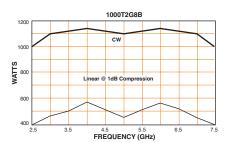
See Model Configurations



Connectors					
RF input		Type N	female or	rear	panel
RF output Typ	be WRD-250 d30) waveguide	e flange or	rear	panel
RF output sar	nple port	Type N	female or	rear	panel
Interlock		DB-15	female or	rear	panel
GPIB		IEEE-488	female or	rear	panel
Cooling					

Forced air (self-contained fans), air entry and exit in rear.

Weight	295 kg (650 lb.)
Size (WxHxD)	56 x 160 x 82.3 cm / 22.1 x 63 x 32.4 in.



1500T2G8A 2.5 - 7.5 GHz 1700 W CW

Power (fu	ndamental), CW, @ Outp	ut Connector				
Nominal	, ,) W / min. 1,600 W, 2.5 – 3 GHz,				
Linear @ 1	dB Compression	1,700 W, 3 – 7.5 GHz 400 W min.				
Flatness	±8 dB max., equalized f	for ±6 dB max. at rated power				
Frequency	/ Response					
		2.5 – 7.5 GHz instantaneously				
Input for Rated Output 1 milliwatt n						
Gain (at n	nax. setting)	62 dB mir				
Gain Adju	stment (continuous range	e) 35 dB min.				
Input Imp	edance	50 ohms, VSWR 2:1 max				
Output Im	pedance	50 ohms, VSWR 2.5:1 typ				

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 300 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Primary Power

Minus 85 dBm/Hz max., Minus 95 dBm/Hz typ.

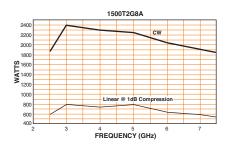
Harmonic Distortion

Minus 15 dBc max., Minus 17 dBc typ.

See Model Configurations



Connectors	
RF input	Type N female on rear panel
RF output Typ	e WRD-250 d30 waveguide flange on rear panel
RF output sample p	orts (forward and reflected)
	Type N female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 female on rear panel
Cooling	
Forced o	ir (self-contained fans), air entry and exit in rear.
Weight	296 kg (650 lb.)
Size (WxHxD)	56 x 160 x 82.3 cm / 22.1 x 63 x 32.4 in.



	Produ	Product Catalog 2024		For Sales, call: 215.723.8181 For an Applications Engineer, call: 800.933.8181 arworld.us				s	58	
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

200T4G8 4 – 8 GHz 200 W CW

Power (fundamento Nominal Linear @ 1 dB Compression	ntal), CW, @ Output Connector 262 W / min. 200 W 100 W min.					
Flatness	±6 dB max. at rated power					
Frequency Response	4 – 8 GHz instantaneously					
Input for Rated Output	1 milliwatt max.					
Gain (at max. setting)	53 dB min.					
Gain Adjustment (continuous range)	35 dB min.					
Input Impedance	50 ohms, VSWR 2:1 max.					
Output Impedance	50 ohms, VSWR 2.5:1 typ.					

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 40 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 64 dBm/Hz max., Minus 70 dBm/Hz typ.

Harmonic Distortion

Minus 4 dBc max., Minus 7 dBc typ.

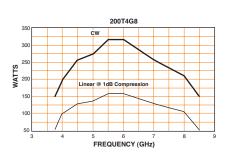
Primary Power

190 – 260 VAC 50/60 Hz, single phase 2 kVA max.



Connectors	
RF input	Type N female on rear panel
RF output	Type N female on rear panel
RF output sample port	Type N female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 female on rear panel
Cooling	
Forced air (self-conto	ained fans), air entry and exit in rear.
Weight	54 kg (120 lb.)

54 kg (120 lb.) Size (WxHxD) 50.3 x 29.7 x 68.6 cm / 19.8 x 11.7 x 27 in.



250T6G18 6 - 18 GHz 250 W CW

300 W / min. 250 W ±6 dB max. at rated power – 18 GHz instantaneously 1 milliwatt max.					
– 18 GHz instantaneously					
,					
1 milliwatt max.					
1 milliwatt max.					
54 dB min.					
35 dB min					
0 ohms, VSWR 2.5:1 max					
50 ohms, VSWR 2.5:1 typ.					

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 50 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability

Pulse Width	1 microseconds min.
Pulse Rate (PRF)	100 kHz max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse width distortion	
	±30 ns max. (50% points of output
	pulse width compared to 50%
	points of input pulse width)

Noise Power Density

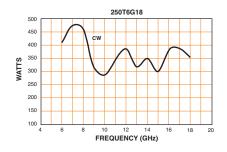
(pulse on) Minus 65 dBm/Hz max., Minus 70 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.

Harmonic Distortion

Minus 5 dBc max., Minus 8 dBc typ.



Primary Power	
, i	90–260 VAC, 50/60 Hz, single phase, 2 kVA ma
Connectors	
RF input	Type N female on rear pan
RF output	Type WRD-650 waveguide flange on rear pan
RF output same	ble port Type N female on rear pan
Interlock	DB-15 female on rear pan
Video	BNC-female on rear pan
GPIB	IEEE-488 female on rear pan
Cooling	
Forced	air (self–contained fans), air entry and exit in rea
Weight	53 kg (115 lk
Size (WxHxD)	
. ,	50.3 x 29.7 x 68.6 cm / 19.8 x 11.7 x 27 i



Аметек	Product Catalog 2024		2024 For Sal	or Sales, call: 215.723.8181 For an Applications Engineer, call: 800.933.8181				81 arworld.u	arworld.us	
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range **2.5 – 50 GHz**

Power Range **40 W – 20 kW**

500T6G18 6 - 18 GHz 500 W CW

Contents

Rated Power Output Minimum Typical	t (6 – 18 GHz)	500 W 600 W
Flatness (maximum	@ rated power)	±7 dB max.
Input for Rated Out	put	1 milliwatt max.
Gain (small signal)		57 dB min.
Gain Adjustment (c	ontinuous range)	35 dB min.
Input Impedance		50 ohms, VSWR 2.5:1 max.
Output Impedance		50 ohms, VSWR 2.5:1 typ.
Harmonic Distortion	ı	Minus 15 dBc max
Connectors RF input RF output RF output sample Interlock GPIB	15	N, female, rear WRD–650 waveguide, rear N, female, rear –pin subminiature D, female E-488 female on rear panel
Cooling	Ford	ced air (self-contained fans)
Weight		91 kg (201 lb.)
Size (WxHxD) (No Cabinet)		5.2 cm / 19.8 x 14.8 x 32 in. 71.1 cm / 19.8 x 14 x 28in.
Export Classificatio	n	EAR99

Find it Fast

RF Solid State

Universal Series

Microwave



		г	PICAL O	UTPUT P	OWER	(Psat @	0 dB	m inpu	ħ		
		_					1				
50.0									-		
0.0									1		
\$0.0			\checkmark		/				4	Y	
0.0											
0.0		+						+	+		
0.0		+							-		
0.0 6.0	7.0	8.0	9.0	10.0 1		12.0 ncy (GHz)	13.0	14.0	15.0	16.0	17.0 18.0

250T8G18
7.5 – 18 GHz
250 W CW

Power (fundamental), CW @ Out Nominal	put Connector 300 W / min. 250 W
Linear @ 1 dB Compression	70 W min.
Flatness ±12 dB max., equalize	ed for ± 5 dB max. at rated power
Frequency Response	7.5 –18 GHz instantaneously
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	54 dB min.
Gain Adjustment (continuous ran	ige) 35 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 50 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability

TWT

 Pulse Width
 0.05 microseconds min.

 Pulse Rate (PRF)
 100 kHz max.

 RF Rise and Fall
 30 ns max. (10% – 90%)

 Delay
 300 ns max. from pulse input to RF 90%

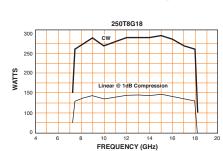
 Pulse width distortion
 ±30 ns max. (50% points of output pulse width compared to 50% points of input pulse width)

Systems

Antennas



Noise Power	Density
	(pulse on) Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.
Harmonic Dis	stortion
	Below 10 GHz, Minus 5 dBc max., Minus 7 dBc typ. 10–12 GHz, Minus 8 dBc max., Minus 12 dBc typ. Above 12 GHz, Minus 20 dBc max., Minus 30 dBc typ.
Primary Pow	er 190 – 260 VAC, 50/60 Hz, single phase, 2.5 kVA max.
Connectors	
RF input RF output	Type N female on rear panel
	Type WRD-750D24 waveguide flange on rear panel
	sample port Type N female on rear panel
Interlock	DB-15 female on rear panel
Video	BNC-female on rear panel
GPIB	IEEE-488 female on rear panel
Cooling	Forced air (self-contained fans), air entry and exit in rear.
	Torced dir (3ein-comdined funs), dir enny drid exit in fedi.
Weight	53 kg (115 lb.)
Size (WxHxD)	
~ /	50.3 x 29.7 x 68.6 cm / 19.8 x 11.7 x 27 in.
	250T8G18
300	cw
250	



Accessories

Contact

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Solid State Pulse

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

500T8G18 7.5 – 18 GHz 500 W CW

Power (fundamental), CW, @ Output Connector					
Nominal		543 W / min. 500 W 125 W min.			
Linear @ 1	dB Compression				
Elethono 11 dD may aqualized for 2 dD may at rated now					
Flatness ±11 dB max., equalized for ±3 dB max. at rated power					
Frequency	Response 7	.5 – 18 GHz instantaneously			
Input for Re	ated Output	1 milliwatt max.			
Gain (at m	ax. setting)	57 dB min.			
Gain Adjus	tment (continuous range)	35 dB min.			
Input Impe	dance	50 ohms, VSWR 2:1 max.			
Output Imp	edance	50 ohms, VSWR 2.5:1 typ.			

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 100 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ.

Harmonic Distortion

Minus 20 dBc/Hz max., Minus 22 dBc/Hz typ.

Primary Power

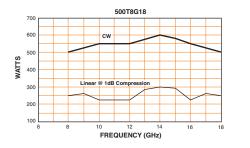
See Model Configurations

Connectors

RF input Type N female on rear panel RF output Type WRD-750D24 waveguide flange on rear panel RF output sample port Type N female on rear panel GPIB IEEE-488 female on rear panel Interlock DB-15 female on rear panel



Cooling	Forced air (self-contained fans), air entry and exit in rear.
Weight	91 kg (200 lb.)
Size (WxHxD)) 50.3 x 40.6 x 68.6 cm / 19.8 x 16 x 27 in.



1000T8G18B 7.5 - 18 GHz 1000 W CW

Power (fundamental), CW, @ Outp	out Connector			
Nominal	1,100 W			
Minimum 1000 W 7.5	- 17 GHz, 925 W 17 - 18 GHz			
Linear @ 1 dB Compression	250 W min.			
Flatness				
±11 dB max., equalized	for $\pm 3 \text{ dB}$ max. at rated power			
Frequency Response	7.5 – 18 GHz instantaneously			
Input for Rated Output	1 milliwatt max.			
Gain (at max. setting)	60 dB min.			
Gain Adjustment (continuous range) 35 dB mi				
Input Impedance	50 ohms, VSWR 2:1 max			
Output Impedance	50 ohms, VSWR 2.5:1 typ.			

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 200 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ.

Harmonic Distortion

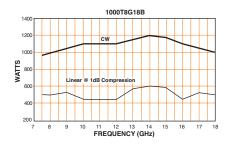
Minus 20 dBc max., Minus 27 dBc typ.

Primary Power

See Model Configurations



Connectors RF input	Type N female on rear panel
	be WRD-750D24 waveguide flange on rear panel
RF output samp	le port Type N female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 female on rear panel
Cooling	
Forced air	(self-contained fans), air entry and exit in rear.
Weight	295 kg (650 lb.)
Size (WxHxD)	56 x 160 x 82.3 cm / 22.1 x 63 x 32.4 in.



61

Contact

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Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	, I

Contents

Frequency Range **2.5 – 50 GHz**

Power Range 40 W – 20 kW

1500T8G18 7.5 - 18 GHz 1500 W CW

Power (fundamental), CW, @ Outpu Nominal Linear @ 1 dB Compression	t Connector 2000 W / min. 1,500 W 375 W min.
Flatness	for , (dD page, at rated payor
±11 dB max., equalized i	for ±6 dB max. at rated power
Frequency Response	7.5 – 18 GHz instantaneously
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	62 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 300 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 70 dBm/Hz max., Minus 72 dBm/Hz typ.

Harmonic Distortion

Minus 20 dBc max., Minus 27 dBc typ.

Primary Power

See Model Configurations

Connectors RF input Type N female on rear panel RF output Type WRD–750D24 waveguide flange on rear panel RF output sample ports (forward and reverse) Type N female on rear panel Interlock DB–15 female on rear panel GPIB IEEE–488 female on rear panel

Cooling

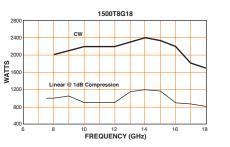
Forced air (self-contained fans), air entry and exit in rear.

546 kg (1,200 lb.)

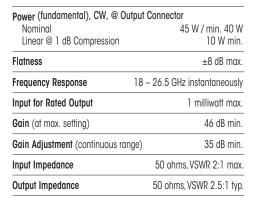
Size (WxHxD) (2 cabinets)

Weight

56 x 160 x 84 cm / 22.1 x 63 x 33 in. per cabinet



40T18G26A 18 - 26.5 GHz 40 W CW



Mismatch Tolerance

Output power foldback protection at reflected power exceeding 10 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability (S2V Option)

Pulse Width 0.1 microseconds min. Pulse Rate (PRF) 10 kHz max. Duty Cycle

Some restrictions apply. Contact AR with application requirements.

 RF Rise and Fall
 30 ns max. (10% - 90%)

 Delay
 300 ns max from pulse input to RF90%

 Pulse Width Distortion
 300 ns max from pulse input to RF90%

 30 ns max (50% points of output pulse width compared to 50% points of input pulse width)

 Noise Power Density (pulse off)
 Minus 140 dBm/Hz typ.

 Pulse Off Isolation
 80 dB min., 90 dB typ.

 Pulse Input
 80 dB min., 90 dB typ.

> TTL Level, 50 Ohm nominal termination, high level enables RF when video pulsing mode is selected.



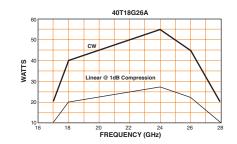
Noise Power Density	inus 60 dBm/Hz max., Minus 65 dBm./Hz typ.
IVI	
Harmonic Distortion	–15 dBc max.
Primary Power	
	See Model Configurations
Connectors	
RF input	Type K female on rear panel
RF output	Type WR-42 waveguide flange on rear panel
RF output sample port	Type K female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 female on rear panel
Pulse Input (S2V Option)	BNC female on rear panel

Cooling

Weight

Forced air (self-contained fans), air entry and exit in rear.

Size (WxHxD) 50.3 x 16.5 x 68.6 cm / 19.8 x 6.5 x 27 in.



		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	IS	62
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

130T18G26z5B 18 - 26.5 GHz 130 W CW

Power (fundamental), CW, @ Ou	Itput Connector		
Nominal	150 W / min. 130 W		
Linear @ 1 dB Compression	30 W min.		
· · ·			
Flatness	±9 dB max.		
Frequency Response	18 – 26.5 GHz instantaneously		
	· · · · · · · · · · · · · · · · · · ·		
Input for Rated Output	1 milliwatt max.		
Gain (at max. setting)	52 dB min.		
Gain Adjustment (continuous rar	nge) 35 dB min.		
Input Impedance	50 ohms, VSWR 2:1 max.		
Output Impedance 50 ohms, VSWR 2.5:			
TO DO TO TO			

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 20 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 70 dBm/Hz max., Minus 75 dBm./Hz typ.

Harmonic Distortion

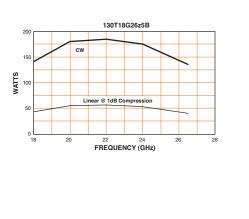
Minus 15 dBc max., Minus 20 dBc typ.

Primary Power

190 - 260 VAC 50/60 Hz, single phase 0.8 kVA max.



Connectors RF input Type K female on rear panel Type WR-42 waveguide flange on rear panel RF output Type K female on rear panel RF output sample port Interlock DB-15 female on rear panel GPIB IEEE-488 on rear panel Video (S1V Option) BNC female on rear panel Cooling Forced air (self-contained fans), air entry and exit in rear. Weight 36 kg (80 lb.) Size (WxHxD) 50.3 x 16.5 x 68.6 cm / 19.8 x 6.5 x 27 in.



200T18G26z5A 18 - 26.5 GHz 200 W CW

Power (fundamental), CW, @ Output Connector Nominal 225 W / min. 200 W					
50 W min.					
±10 dB max.					
8–26.5 GHz instantaneously					
1 milliwatt max.					
53 dB min.					
35 dB min.					
50 ohms, VSWR 2:1 max					
50 ohms, VSWR 2.5:1 typ.					

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 40 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability

Pulse Width	0.1 microseconds min.
Pulse Rate (PRF)	10 kHz max.
Duty Cycle	

Some restrictions apply. Contact AR with application requirements. RF Rise and Fall 100 ns max. (10% – 90%) Delay 500 ns max from pulse input to RF90%

Pulse Width Distortion

200 ns max (50% points of output pulse width compared to 50% points of input pulse width) Noise Power Density (pulse off) Minus 140 dBm/Hz typ. Pulse Off Isolation 80 dB min., 90 dB typ. Pulse Input

> TTL Level, 50 Ohm nominal termination, high level enables RF when video pulsing mode is selected.



Noise Pov	ver D	ensit			- ID	//		. A!	. 75	ID /	I- 4
			Min	us /u	aBW	/HZ M	10X.,	winus	\$ /5 (JRW/F	Iz typ.
Harmonic	Dist	ortior	1	Ν	linus	20 dl	3c ma	ax., N	linus	30 dE	Bc typ.
Primary P	newc						5	0/60	Hz, s	ingle	0 VAC phase \ max.
Connector RF inpu RF outp RF outp Interloc GPIB Video	t iut iut so	ample		pe W	R-42	wave T	guide ype K B–15 IE	e flan fema fema EE-4	ge or ale or ale or 88 or	n rear n rear n rear n rear	panel panel panel panel panel panel
Cooling	Force	ed air	(self-	-cont	ainea	l fans), air	entry	and	exit iı	n rear.
Weight 91 kg (200 lb.)							00 lb.)				
Size (WxH	xD)			5	0.3 x	43 x	81 c	m/1	9.8 x	17 x	32 in.
350				2	00T18	G26z	5A				
300											
250			CW								
SL 200									~		

		FREQUENCY (GHz)									
	1	8	2	0	2		2		2	6	28
	0										
	30										
	50										
	100										
	100			L	near @	1dB C	ompres	sion			
≥	150										
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WATTS	200										
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	250			• • •							
				CW							
	000						_				

Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.818	81 <mark>arworld.u</mark>	S	63
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

40T26G40A 26.5 - 40 GHz 40 W CW

Power (fundamental), CW, @ Output Connector							
Nominal	45 W / min. 40 W						
Linear @ 1 dB Compression	10 W min.						
Flatness	±8 dB max.						
Frequency Response	26.5 – 40 GHz instantaneously						
Input for Rated Output	1 milliwatt max.						
Gain (at max. setting)	46 dB min.						
Gain Adjustment (continuous ra	nge) 35 dB min.						
Input Impedance	50 ohms, VSWR 2:1 max						
Output Impedance	50 ohms, VSWR 2.5:1 typ.						

Mismatch Tolerance

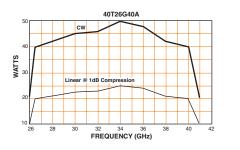
Output power foldback protection at reflected power exceeding 10 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Mir	us 60 dBm/Hz max., Minus 70 dBm/Hz typ.
Harmonic Distortion	–15 dbc max,
Primary Power	
	See Model Configurations
Connectors	
RF input	Type K female on rear panel
RF output Ty	pe WR-28 waveguide flange on rear panel
RF output sample po	Type K female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 on rear panel



Cooling Forced air (self-contained fans), air entry and exit in re						
Weight	30 kg (65 lb.)					
Size (WxHxD)	50.3 x 16.5 x 68.6 cm / 19.8 x 6.5 x 27 in					



130T26z5G40B 26.5 - 40 GHz 130 W CW



Connectors RF RF RF

Power (fundamental), CW, @ Output Connector						
Nominal	150 W / min. 130 W					
Linear @ 1 dB Compression	30 W min.					
Flatness	±10 dB max.					
Frequency Response	26.5 – 40 GHz instantaneously					
Input for Rated Output	1 milliwatt max.					
Gain (at max. setting)	52 dB min.					
Gain Adjustment (continuous ra	nge) 35 dB min.					
Input Impedance	50 ohms, VSWR 2:1 max.					
Output Impedance	50 ohms, VSWR 2.5:1 typ.					

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 20 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Noise Power Density

Minus 70 dBm/Hz max., Minus 75 dBm./Hz typ.

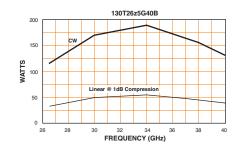
Harmonic Distortion

Minus 15 dBc max., Minus 20 dBc typ.

Primary Power

190 – 260 VAC 50/60 Hz, single phase 0.8 kVA max.

RF input RF output RF output Interlock GPIB	sample port	Type K female on rear panel Type WR–28 waveguide flange on rear panel Type K female on rear panel DB–15 female on rear panel IEEE–488 on rear panel
Cooling	Forced air (s	self–contained fans), air entry and exit in rear.
Weight		36 kg (80 lb.)
		Size (WxHxD) 50.3 x 16.5 x 68.6 cm / 19.8 x 6.5 x 27 in.



Аметек		uct Catalog	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	64
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	TWT	Systems	Antennas	Accessories	Contact

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

200T26z5G40A 26.5 - 40 GHz 200 W CW

Connector 225 W / min. 200 W 50 W min.
±10 dB max.
26.5 – 40 GHz instantaneously
1 milliwatt max.
53 dB min.
35 dB min.
50 ohms, VSWR 2:1 max.
50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 40 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Video Pulse Capability	
Pulse Width	0.1 microseconds min.
Pulse Rate (PRF)	10 kHz max.
Duty Cycle	
Some restrictions	s apply. Contact AR with application

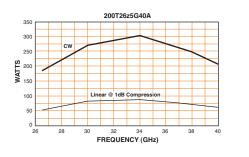
requirements. RF Rise and Fall 100 ns max. (10% – 90%) 500 ns max from pulse input to RF90% Delay Pulse Width Distortion

200 ns max (50% points of output pulse width compared to 50% points of input pulse width) Noise Power Density (pulse off) Minus 140 dBm/Hz typ. Pulse Off Isolation 80 dB min., 90 dB typ. Pulse Input

TTL Level, 50 Ohm nominal termination, high level enables RF when video pulsing mode is selected.



Noise Power Density Minus 70 dBm/Hz max., Minus 75 dBm./Hz typ. Harmonic Distortion Minus 20 dBc max., Minus 30 dBc typ. **Primary Power** 190 - 260 VAC 50/60 Hz, single phase 3 kVA max. Connectors RF input Type K female on rear panel Type WR-42 waveguide flange on rear panel RF output RF output sample port Type K female on rear panel Interlock DB-15 female on rear panel GPIB IEEE-488 on rear panel Video BNC female on rear panel Cooling Forced air (self-contained fans), air entry and exit in rear. Weight 91 kg (200 lb.) Size (WxHxD) 50.3 x 43 x 81 cm / 19.8 x 17 x 32 in.



70T40G50 40 - 50 GHz 70 W CW

Power (fundamental), CW, @ Output Flange						
Minimum	70 W, 40 GHz – 45 GHz					
	50 W, 45 GHz – 50 GHz					
Flatness	±3 dB max. at rated power					
Frequency Response	40 – 50 GHz instantaneously					
Input for Rated Output	1 milliwatt max.					
Gain (at maximum setting)	47 dB min.					
Gain Adjustment (continuous range	e) 35 dB min.					
Input Impedance	50 ohms, VSWR 2:1 max					
Output Impedance	50 ohms, VSWR 2.5:1 typ					

Mismatch Tolerance

Output power foldback protection at reflected power exceeding 20 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Harmonic Distortion	Minus 15 dBc typ.	
	willing to upc typ.	

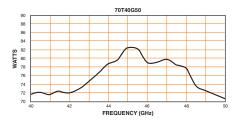
Spurious Response (non-harmonic) Minus 50 dBc typ. (excluding harmonics)

Primary Power

190 - 260 VAC 50/60 Hz, single phase 1 kVA max.



Connectors	
RF input	Type 2.4 mm female on rear panel
RF output	
Type WF	R-22 waveguide flange on rear panel, all tapped
RF output sample	e ports (forward and reflected)
	Type 2.4 mm female on rear panel
Remote Interface	IEEE-488
Interlock	DB-15 female on rear panel
Cooling	
Forced air	(self-contained fans), air entry and exit in rear.
Weight	42 kg (93 lb.)
Size (WxHxD)	48.26 x 16.5 x 76.2 cm / 19 x 6.5 x 30 in.
Export Classification	n EAR99



С		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	s	65
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range **2.5 – 50 GHz**

Power Range **40 W – 20 kW**

100T40G50 40 - 50 GHz 100 W CW

Power (fundamental), CW, @ Output Connector						
Minimum	100 W					
Flatness	±8 dB max.					
Frequency Response	40 – 50 GHz instantaneously					
Input for Rated Output	1 milliwatt max.					
Gain (small signal)	50 dB min.					
Gain Adjustment (continuous range)) 35 dB min.					
Input Impedance	50 ohms, VSWR 2:1 max.					
Output Impedance	50 ohms, VSWR 2.5:1 typ.					

Mismatch Tolerance

Will operate without damage or oscillation when connected to any load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Modulation Capability:

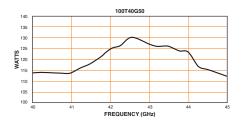
Will faithfully reproduce AM, FM, or pulse modulation appeari on the input signal. AM peak envelope power limited to specifi pow		
Harmonic Distortion	Minus 22 dBc typ.	
Primary Power	190 – 260 VAC 50/60 Hz, single phase 1.5 kVA max.	

Connectors

RF input		Type 2.4 mm female on front (nanel
RF output	Tuno	,, , , , , , , , , , , , , , , , , , , ,	
		WR–22 waveguide flange on rear p	
RF output sample	ports	5 Type 2.4 mm female on rear participation	panel
Interlock		DB-15 female on rear	panel
GPIB		IEEE-488 female on rear	panel



Cooling Forced air (s	elf-contained fans), air entry and exit in rear.
Weight	82 kg (180 lb.)
Size (WxHxD)	50.3 x 43 x 76 cm / 19.8 x 17 x 30 in.



4000TP2G4 2 - 4 GHz 4000 W Pulse

Power (fundamental), Peak Pulse, @	Output
Nominal	5800 W / min. 4.7 kW
Flatness	±10 dB max.
Frequency Response	2 – 4 GHz
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	66 dB min.
Gain Adjustment (continuous range)	35 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max
Output Impedance	50 ohms, VSWR 2.5:1 typ

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

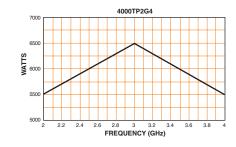
Pulse Capability

Pulse Width	0.07 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	35 ns max. (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse Width Distortion	l · · · ·
	s max. (50% points of output pulse width pared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

(pulse on) Minus 57 dBm/Hz max., Minus 59 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.



Harmonic Distortion	Minus 0 dBc max See Model Configuration:		
Primary Power			
Connectors			
RF input	Type N female on rear panel		
RF output	Type N female on rear panel		
RF output forward sample port	Type N female on rear panel		
Pulse input	Type BNC female on rear panel		
Interlock	DB-15 female on rear panel		
GPIB	IEEE-488 female on rear panel		
Cooling			
Forced air (self-contain	ned fans), air entry and exit in rear.		
Weight	75 kg (165 lb.)		
Size (WxHxD) 51	x 27 x 81 cm / 19.8 x 10.5 x 32 in.		



Аметек	Produ	uct Catalog 3	2024 For Sal	les, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	S	66
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

6900TP2G4 2 – 4 GHz 6900 W Pulse

Power (fundamental), P Nominal	eak Pulse, @ Output 9000 W; Minimum, 6900 W		
Flatness	±8 dB maximum, ±4 dB at rated power		
Frequency Response	2 – 4 GHz		
Input for Rated Output	1 milliwatt max.		
Gain (at max. setting)	68 dB min.		
Gain Adjustment (contin	uous range) 35 dB min.		
Input Impedance	50 ohms, VSWR 2.5:1 max.		
Output Impedance	50 ohms, VSWR 2.5:1 typ.		

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 4000 watts. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

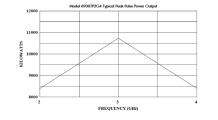
Pulse Capability

Pulse Width	0.2 – 50 microseconds.
Pulse Rate (PRF)	100 kHz maximum
Duty Cycle	4% maximum.
RF Rise and Fall	70 ns max (10% – 90%).
Delay	500 ns maximum from pulse input to RF 90%
Pulse Width Disto	rtion

±50 ns maximum (50% points of output pulse width compared to 50% points of input pulse width) Pulse Off Isolation 80 dB minimum, 90 dB typical Pulse Input TTL level, 50 ohm nominal termination



Noise Power Density	(pulse on) Minus 55 dBm/Hz (maximum) Minus 84 dBm/Hz (typical)				
	(pulse off) Minus 140 dBm/Hz (typical)				
Harmonic Distortion	Minus 15 dBc max				
Primary Power	See Model Configurations				
Connectors RF input: rear panel	Type N female on				
RF output:	Type DIN 7-16 female on rear panel				
RF output sample po	rts (forward and reflected):				
	Type N female on rear panel				
Pulse input:	Type BNC female on rear panel				
GPIB:	IEEE-488 female on rear panel				
Interlock:	DB-15 female on rear panel				
Cooling					
Forced air (self-	-contained fans), air entry and exit in rear				
Weight	121 kg, 265 lbs				
Size (WxHxD)	50.3 x 48 x 89 cm, 19.8 x 19 x 35 in				



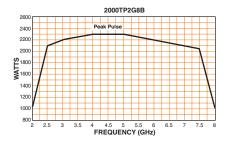
2000TP2G8B 2.5 - 7.5 GHz 2000 W Pulse

Power (fundamental), Nominal	Peak Pulse, @ Output Connector 2,200 W / min. 2000 W
Flatness	x., equalized for ±4 dB max. at rated power
±13 ud 11u/	$x_{,,}$ equalized for ±4 ab max. at falled power
Frequency Response	2.5 – 7.5 GHz instantaneously
Input for Rated Output	t 1 milliwatt max.
Gain (at max. setting)	63 dB min.
Gain Adjustment (con	tinuous range) 35 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.
exceeding 1000 W. with any magnitude	foldback protection at peak reflected power Will operate without damage or oscillation and phase of source and load impedance. unshielded open due to coupling to input. Should not be tested with connector off.
Pulse Capability Pulse Width Pulse Rate (PRF) Duty Cycle RF Rise and Fall Delay	0.07 – 30 microseconds 100 kHz max. 4% max. 30 ns max (10% – 90%) 300 ns max. from pulse input to RF 90%

Pulse Width Distortion ±30 ns max (50% points of output pulse width compared to 50% points of input pulse width)



Pulse Off Isolation	80 dB min., 90 dB
typ. Pulse Input termination	TTL level, 50 ohm nominal
Noise Power Density (pulse on) typ.	Minus 70 dBm/Hz max., Minus 72 dBm/Hz
(pulse off) Hz typ.	Minus 140 dBm/
Harmonic Distortion typ.	Minus O dBc max., Minus 1.5 dBc
Primary Power	190 – 260 VAC Single phase, 50/60 Hz 1.2 kVA max.
Connectors RF input RF output RF output sample por Pulse input Interlock GPIB	Type N female on rear panel Type N female on rear panel Type N female on rear panel Type BNC female on rear panel DB-15 female on rear panel IEEE-488 female on rear panel



Аметек		uct Catalog 2	2024 For Sal	For Sales, call: 215.723.8181For an Applications Engineer, call: 800.933.8181arworld.us					67	
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

8000TP2z7G3z1 2.7 - 3.1 GHz 8000 W Pulse

Power (fundamental), CW, @ Output Nominal Flatness Frequency Response	Connector 10000 W / min. 8000 W ±6 dB max. 2.7 – 3.1 GHz			
Input for Rated Output	1 milliwatt max.			
Gain (at max. setting)	69 dB min.			
Gain Adjustment (continuous range)	35 dB min.			
Input Impedance	50 ohms, VSWR 2.5:1 max.			
Output Impedance	50 ohms, VSWR 2.5:1 typ.			

Mismatch Tolerance

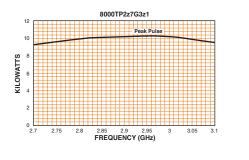
Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

ulse Capability	
Pulse Width	0.1 – 40 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	1% max.
RF Rise and Fall	50 ns max. (10% – 90%)
Delay	500 ns max. from pulse input to RF 90%
Pulse Width Distortion	1
±30	ns max. (50% points of output pulse width
con	npared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

Harmonic Distor	tion	Minus 20 dBc max.
(pulse off)		Minus 140 dBm/Hz typ.
(pulse on)	Minus 55 dBm/ł	Hz max., Minus 80 dBm/Hz typ.



Primary Power 190 - 260 VAC 50/60 Hz, three phase, delta (4 wire) 2 kVA max. Connectors RF input Type N female on rear panel RF output Type DIN 7–16 female on rear panel RF output sample ports (forward and reflected) Type N female on rear panel Pulse Input Type BNC female on rear panel Interlock DB-15 female on rear panel GPIB IEEE-488 female on rear panel Cooling Forced air (self-contained fans), air entry and exit in rear. Weight 61 kg (135 lb.) Size (WxHxD) 50.3 x 26 x 88.9 cm / 19.8 x 10.3 x 35 in.



4000TP4G8 4 – 8 GHz 4000 W Pulse

	0utput in. 3.8 kW from 4 − 4.5 GHz, Hz, 3.8 kW from 7.5 − 8 GHz			
Flatness	±10 dB min.			
Frequency Response 4 - 8 GH				
Input for Rated Output	1 milliwatt max.			
Gain (at max. setting)	66 dB min.			
Gain Adjustment (continuous range)	35 dB min.			
Input Impedance	50 ohms, VSWR 2.5:1 max			
Output Impedance	50 ohms, VSWR 2.5:1 typ.			
Mismatch Tolerance				

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

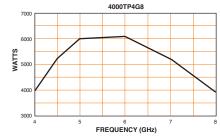
Pulse Capability

Pulse Width	0.07 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	35 ns max. (10% to 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse Width Distorti	
±50) ns max. (50% points of output pulse width

compared to 50% points of input pulse width) Pulse Off Isolation 80 dB min., 90 dB typ. TTL level, 50 ohm nominal termination Pulse Input



us 0 dBc max ecification 3 kVA max.
on rear panel on rear panel on rear panel on rear panel on rear panel on rear panel
nd exit in rear.
1 kg (155 lb.)



С	Prode	uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.81	81 arworld.u	s	68
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 2.5 - 50 GHz

Power Range 40 W - 20 kW

7400TP4G8 4 - 8 GHz 7400 W Pulse

Power (fundamental), Peak Puls Nominal	se, @ Output 10000 W / min. 7,400 W
Flatness ±	10 dB min., ±5 dB at rated power
Frequency Response	4 – 8 GHz
Input for Rated Output	1 milliwatt max.
Gain (at max. setting)	69 dB min.
Gain Adjustment (continuous ro	inge) 35 dB min.
Input Impedance	50 ohms, VSWR 2.5:1 max.
Output Impedance	50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 2000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

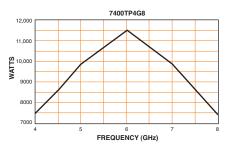
Pulse Capability	
Pulse Width	0.2 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	70 ns max. (10% – 90%)
Delay	500 ns max. from pulse input to RF 90%
Pulse Width Distorti	on
±50	ns max. (50% points of output pulse width
CO	mpared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination
Naina Dawar Danaitu	

Noise Power Density Minus 65 dBm/Hz max., Minus 85 dBm/Hz typ. (pulse on)

(pulse off) Minus 140 dBm/Hz typ.



Harmonic Disto	rtion Minus 12 dBc max.	
Primary Power	See Model Configurations in Specification 5 kVA max	
Connectors		
RF input	Type N female on rear panel	
RF output	Type WRD-350 waveguide flange on rear panel	
RF output forv	vard and reflected sample ports	
·	Type N female on rear panel	
Pulse input	Type BNC female on rear panel	
Interlock	DB-15 female on rear panel	
GPIB	IEEE-488 female on rear panel	
Cooling		
Forced a	ir (self-contained fans), air entry and exit in rear.	
Weight	123 kg (270 lb.)	
	50.3 x 53 x 91 cm / 19.8 x 21 x 36 in.	



1000TP8G18 7.5 - 18 GHz 1000 W Pulse

Power (fu Nomina	,	e, @ Output Connector 1,800 W / min. 1000 W
Flatness	±8 dB max., equaliz	ed for ±3 dB max. at rated power
Frequency	Response	7.5 – 18 GHz instantaneously
Input for Rated Output		1 milliwatt max.
Gain (at max. setting)		60 dB min.
Gain Adjustment (continuous range)		nge) 35 dB min.
Input Impedance		50 ohms, VSWR 2.5:1 max
Output Impedance		50 ohms, VSWR 2.5:1 typ.
	T. I	

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 500 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability

noo oupubiniij	
Pulse Width	0.07 – 100 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse Width Distorti	on
±30	ns max. (50% points of output pulse width
cor	npared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min. / 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination
1	

Noise Power Density

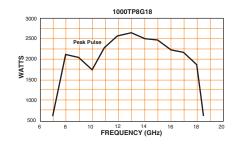
(pulse on) Minus 57 dBm/Hz max., Minus 58 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.



Harmonic Dista	Distortion Minus 2 dBc max., Minus 3 dBc ty	
Primary Power	190 – 260 V/ 50/60 Hz, single pha 1.5 kVA mo	se
Connectors RF input RF output RF output for Pulse input Interlock GPIB	Type N female on rear par ype WRD–750D24 waveguide flange on rear par ard sample port Type N female on rear par Type BNC female on rear par DB–15 female on rear par IEEE–488 female on rear par	nel nel nel
Cooling Force	air (self-contained fans), air entry and exit in rea	ar.
Weight	52 kg (115 lk	D.)
Size (WxHxD)	50.3 x 25.4 x 69 cm / 19.8 x 10 x 27 i	in.
		_

Export Classification

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Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	69
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range 2.5 - 50 GHz

Minus 140 dBm/Hz

Power Range 40 W - 20 kW

2000TP8G18 7.5 - 18 GHz 2000 W Pulse

Power (fur Nomina	ndamental), Peak Pulse I	, @ Output Connector 2,500 W / min. 2000 W
Flatness ±8 dB max., equalized for ±3 dB max. at ra		
Frequency Response 7.5 – 18 GHz instantaneous		
Input for Rated Output 1 milliwatt		
Gain (at max. setting)		63 dB min.
Gain Adjustment (continuous range)		ge) 35 dB min.
Input Impedance		50 ohms, VSWR 2.5:1 max.
Output Impedance		50 ohms, VSWR 2.5:1 typ.

Mismatch Tolerance

Output pulse width foldback protection at average reflected power exceeding 1000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability

Pulse Width	0.07 – 30 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	30 ns max (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse Width Distortion	

±30 ns max (50% points of output pulse width

compared to 50% points of input pulse width)		
Pulse Off Isolation	80 dB min. / 90 dB typ.	
Pulse Input	TTL level, 50 ohm nominal termination	



Noise Power Density Minus 55 dBm/Hz max., Minus 58 dBm/Hz (pulse on) (pulse off)

//	
Harmonic Distortion	Minus 18 dBc max., Minus 20 dBc typ.
Primary Power	190 – 260 VAC
	50/60 Hz, single phase
	3 kVA max.

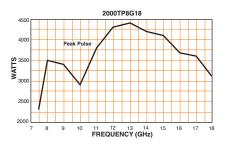
Connectors

typ.

typ.

RF input Type N female on rear panel RF output Type WRD-750D24 waveguide flange on rear panel RF output forward sample port Type N female on rear panel Type BNC female on rear panel Pulse input Interlock DB-15 female on rear panel GPIB IEEE-488 female on rear panel

Coolina



4000TP8G12 8 - 12 GHz 4000 W Pulse

Power (fundamental), Peak Pulse, @ Output		
Nominal	5,500 W / min. 4,200 W	
Flatness	±10 dB max.	
Frequency Response	8 – 12 GHz	
Input for Rated Output	1 milliwatt max.	
Gain (at max. setting)	66 dB min.	
Gain Adjustment (continuous range)	35 dB min.	
Input Impedance	50 ohms, VSWR 2.5:1 max.	
Output Impedance	50 ohms, VSWR 2.5:1 typ.	
Miemetek Televenee		

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Canability

Pulse Width	0.07 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	35 ns max. (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse Width Distortion	1
±30 r	ns max. (50% points of output pulse width
com	pared to 50% points of input pulse width)
Pulso Off Isolation	avid Bh 00 dB tun

Pulse Off Isolation 80 dB min., 90 dB typ. TTL level, 50 ohm nominal termination Pulse Input

Noise Power Density

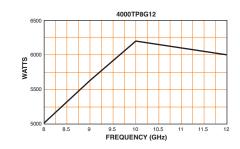
(pulse on) Minus 57 dBm/Hz max., Minus 59 dBm/Hz typ. Minus 140 dBm/Hz tvp. (pulse off)



Harmonic Distortion	Minus 10 dBc max.
Primary Power	See Model Configurations in Specification 3 kVA max.
Connectors	
RF input	Type N female on rear panel
RF output	Type WRD-90 waveguide flange on rear panel
RF output forward sam	ple port Type N female on rear panel
Pulse input	Type BNC female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 female on rear panel
Cooling	
Forced air (self-contained fans), air entry and exit in rear.
Weight	75 kg (165 lb.)

gnt	/5 Kg (165 lb.)
(WxHxD)	51 x 27 x 69 cm / 19.8 x 10.5 x 27 in.

Size



Аметек	Produ	uct Catalog 2	2024 For Sale	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.818	31 arworld.u	S	70
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range **2.5 – 50 GHz**

Power Range **40 W – 20 kW**

8300TP8G12 8 - 12 GHz 8300 W Pulse

Power (fundamental), Peak Puls Nominal	se, @ Output 10000 W / min. 8,300 W			
Flatness ±10 dB max., ±5 dB at rated powe				
Frequency Response	8 – 12 GHz			
Input for Rated Output	1 milliwatt max.			
Gain (at max. setting)	69 dB min.			
Gain Adjustment (continuous ra	nge) 35 dB min.			
Input Impedance	50 ohms, VSWR 2.5:1 max.			
Output Impedance	50 ohms, VSWR 2.5:1 typ.			

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 4000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability

Pulse Width	0.2 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	70 ns max. (10% – 90%)
Delay	500 ns max. from pulse input to RF 90%
Pulse Width Distortion	1
±50 n	s max. (50% points of output pulse width
com	pared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

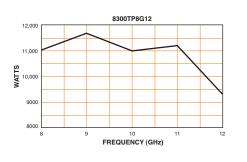
Noise Power Density

(pulse on) Minus 70 dBm/Hz max., Minus 73 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.



Harmonic Distortion	Minus 15 dBc max.				
Primary Power	See Model Configurations in Spefication 5 kVA max				
Connectors					
RF input	Type N precision female on rear panel				
RF output	Type WR-90 waveguide flange on rear panel				
RF output forward	and reflected sample ports				
	Type N precision female on rear panel				
Pulse input	Type BNC female on rear panel				
Interlock	DB-15 female on rear panel				
GPIB	IEEE-488 female on rear panel				
Cooling					
	elf–contained fans), air entry and exit in rear.				
Weight	121 kg (265 lb.)				

Size (WxHxD) 50.3 x 43 x 84 cm / 19.8 x 17 x 33 in.



20000TP8G12 8 - 12 GHz 20000 W Pulse

Power (fundamental), Peak Pulse, @ Output					
Nominal	22000 W / min. 20000 W				
Flatness	±10 dB max., ±6 dB at rated power				
Frequency Response	8 – 12 GHz				
Input for Rated Output	1 milliwatt max.				
Gain (at max. setting)	73 dB min.				
Gain Adjustment (continuo	us range) 35 dB min.				
Input Impedance	50 ohms, VSWR 2.5:1 max				
Output Impedance	50 ohms, VSWR 2.5:1 typ				
Miematek Televanee					

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 5000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability

aloo oapability	
Pulse Width	0.1 – 40 microseconds
Pulse Rate (PRF)	20 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	150 ns max. (10% – 90%)
Delay	500 ns max. from pulse input to RF 90%
Pulse Width Distortion	1
±50 n	s max. (50% points of output pulse width
com	pared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

(pulse on) Minus 65 dBm/Hz max., Minus 85 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.



Harmonic Distortion	Minus 19 dBc max.
Primary Power	208 VAC ±10% Three phase, delta (4–wire), 50/60 Hz 12 kVA max.
Connectors	
RF input	Type N female on rear panel
RF output	Type WRD-90 female on rear panel
RF output forward sample	e ports
(forward and reflected)	Type N female on rear panel
Pulse input	Type BNC female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 female on rear panel

Forced air (self-contained fans), air entry and exit in rear.

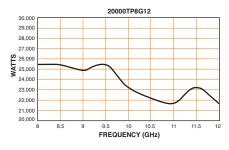
575 kg (1,250 lb.) 57.5 x 196 x 82.5 cm / 22.6 x 77.2 x 32.5 in.

Size (WxHxD) 57.5 x 196 x 82.5 cm / 22.6 x 77.2 x 3

Export Classification

Weight





Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.81	31 <mark>arworld.u</mark>	s	71
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Frequency Range **2.5 – 50 GHz**

Power Range **40 W – 20 kW**

3000TP12G18 12 - 18 GHz 3000 W Pulse

Power (fundamental), Peak Pulse, @ Output Nominal 3,800 W / min. 3000							
Flatness	±10 dB max.						
Frequency Response	12 – 18 GHz						
Input for Rated Output	1 milliwatt max						
Gain (at max. setting)	65 dB min						
Gain Adjustment (continuous range)	35 dB min						
Input Impedance	50 ohms, VSWR 2.5:1 max						
Output Impedance	50 ohms, VSWR 2.5:1 typ						

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 1000 W. Will operate without damage with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

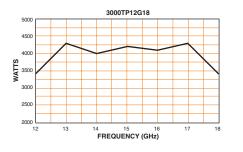
Pulse Capability	
Pulse Width	0.07 – 50 microseconds
Pulse Rate (PRF)	100 kHz max.
Duty Cycle	4% max.
RF Rise and Fall	30 ns max. (10% – 90%)
Delay	300 ns max. from pulse input to RF 90%
Pulse Width Distortio	n
±30	ns max. (50% points of output pulse width
con	npared to 50% points of input pulse width)
Pulse Off Isolation	80 dB min., 90 dB typ.
Pulse Input	TTL level, 50 ohm nominal termination

Noise Power Density

(pulse on) Minus 55 dBm/Hz max., Minus 65 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.



Harmonic Distortion	Minus 8 dBc max.		
Primary Power	See Model Configurations in Specification 2 kVA max.		
Connectors			
RF input	Type N female on rear panel		
RF output	Type WR-62 waveguide flange on rear panel		
RF output forward			
	Type N female on rear panel		
Pulse input	Type BNC female on rear panel		
Interlock	DB-15 female on rear panel		
GPIB	IEEE-488 female on rear panel		
Cooling			
Forced air (s	elf-contained fans), air entry and exit in rear.		
Weight	52 kg (115 lb.)		
Size (WxHxD)	50.3 x 26 x 81 cm / 19.8 x 10 x 31.9 in.		



5700TP12G18 12 - 18 GHz 5700 W Pulse

Power (fundamental), Peak Pulse,	@ Output				
Nominal	7000 W / min. 5700 W				
Flatness ±10	dB min., ±5 dB at rated power				
Frequency Response	12 – 18 GHz				
Input for Rated Output	1 milliwatt max.				
Gain (at max. setting)	67 dB min.				
Gain Adjustment (continuous rang	e) 35 dB min.				
Input Impedance	50 ohms, VSWR 2.5:1 max				
Output Impedance	50 ohms, VSWR 2.5:1 typ				
Miamatah Talaranaa					

Mismatch Tolerance

Output pulse width foldback protection at peak reflected power exceeding 3000 W. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

Pulse Capability

0.2 – 50 microseconds
100 kHz max.
4% max.
70 ns max. (10% – 90%)
500 ns max. from pulse input to RF 90%
n
ns max. (50% points of output pulse width
pared to 50% points of input pulse width)
80 dB min., 90 dB typ.
TTL level, 50 ohm nominal termination

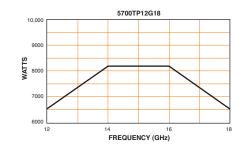
Noise Power Density

(pulse on) Minus 55 dBm/Hz max., Minus 80 dBm/Hz typ. (pulse off) Minus 140 dBm/Hz typ.



Harmonic Distorti	on Minus 15 dBc max.
Primary Power	See Model Configurations in Specification 5 kVA max.
Connectors	
RF input	Type N precision female on rear panel
RF output	Type WR-62 waveguide flange on rear panel
RF output forwa	rd and reflected sample ports
	Type N precision female on rear panel
Pulse input	Type BNC female on rear panel
Interlock	DB-15 female on rear panel
GPIB	IEEE-488 female on rear panel
Cooling	
Force	ed air (self-contained fans), air entry and exit in rear.
Weight	121 kg (265 lb.)

Weight	121 kg (265 lb.)				
Size (WxHxD)	50.3 x 43 x 84 cm / 19.8 x 17 x 33 in.				



Аметек		uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.818	81 arworld.u	s	72
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Systems

Test systems by AR can deliver a solution that integrates all your testing needs for radiated and conducted immunity, radiated and conducted emissions, and more. With a highly experienced team, we have the expertise to supply fully automated systems needed to test various EMC standards.



Product Catalog | 2024

Find it Fast

emcwore

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TWT

arworld.us

Antennas

73

Contact





Systems

Systems

MT2IEC10V3M Multi-Tone RF Radiated **Immunity System**

The MT2IEC10V3M Multi-Tone system is designed to develop a 1.5 x 1.5 meter uniform field area (UFA) with an 18 V/m CW field strength at up to a 3 meter test distance in accordance with IEC 61000-4-3. This system has an operating frequency range from 80 MHz - 6 GHz. Two internal signal generators allow two simultaneous test frequencies allowing for an up to 50% reduction in sweep time.

The signal generation, control, and power monitoring equipment shall be mounted in a ventilated equipment rack along with the RF amplifiers

The MT2IEC10V3M AR System consists of the AR equipment, listed herein. Please refer to individual product specification sheets for details.

The export classification for this equipment is 3A001. This equipment is controlled for export in accordance with the U.S. Export Administration Regulations, Diversion contrary to U.S. law is prohibited.

AR Standardized Systems are customizable upon request. Contact AR for all such requests.

Complete Testing Solutions to the following standards:

Radiated Immunity

- EN/IEC 61000-4-3 - ISO11452-2 Auto (ALSE) - ISO11452-3 Auto (TEM cells) - ISO11451-5 Auto (Strip Line) - ISO11451 - 2 Full Vehicle - DO-160 Section 20.5 (Substitution Method) - EN/IEC 60601-1, -2 - EN 50130-4 - FN 61000-6-1/2 - EN 55024



System Frequer	ncy Range 80 M	Hz - 6 GHz
Number of Tone	S	Up to two
Field Strength		
	1 (10 V/m w,	8 V/m CW / 80% AM)
Test Distance	Up to	o 3 meters
UFA	1.5 x ⁻	1.5 meters
Amplifier Config	guration	
	Models: 250W1000C, 250 W, 80 - 75S1G6C, 75 W	
Antenna Config	uration	
Antenna Config	Models: ATR80M6G, Log-Periodic, 80 Mł ATT700M12G, Log-Periodic, 700 MH	
Antenna Config	Models: ATR80M6G, Log-Periodic, 80 MH ATT700M12G, Log-Periodic, 700 MH	

Software Configuration

System and testing will be controlled using emcware® software which is preloaded and delivered on a new PC as part of overall system.

Design Approach

Self-contained equipment rack with internal pre-wired RF and power with automatic RF switching via SCP2000. AC power is filtered and distributed through an internal power distribution unit. All RF equipment input and outputs are on rear-panel of devices.

Export Classification

Conducted Immunity Testing / **Multi-Tone Testina**

MT4IEC10V3M Multi-Tone RF Radiated **Immunity System**



The MT4IEC10V3M Multi-Tone system is designed to develop a 1.5 x 1.5 meter uniform field area (UFA) with an 18 V/m CW field strength at up to a 3 meter test distance in accordance with IEC 61000-4-3. This system has an operating frequency range from 80 MHz – 6 GHz. Four internal signal generators allow you to four simultaneous test frequencies allowing for an up to 74% reduction in sweep time. The signal generation, control, and power monitoring equipment shall be mounted in a ventilated equipment rack along with the RF amplifiers. The MT4IEC10V3 AR System consists of the AR equipment, listed herein. Please refer to individual product specification sheets for details.

Complete Testing Solutions to the following standards:

Radiated Immunity

EN/IEC 61000-4-3 ISO11452-2 Auto (ALSE) ISO11452-3 Auto (TEM cells) ISO11451–5 Auto (Strip Line) ISO11451 - 2 Full Vehicle DO-160 Section 20.5 (Substitution Method) EN/IEC 60601-1, -2 EN 50130-4 EN 61000-6-1/2 EN 55024

System Frequency Range	80 MHz - 6 GHz
Number of Tones	Up to four
Field Strength	18 V/m CW (10 V/m w/ 80% AM)
Test Distance	Up to 3 meters
UFA	1.5 x 1.5 meters
Amplifier Configuration	

Amplifier Configuration

Models: 500W1000C, 500 W, 80 - 1000 MHz; 125S1G6C, 125 W, 1 - 6 GHz

Antenna Configuration

Models: ATR80M6G, Log-Periodic, 80 MHz - 6 GHz; ATT700M12G, Log-Periodic, 700 MHz - 12 GHz

RF Cable Configuration

Two sets (one for each amp/antenna) consisting of 2 and 5 meter lengths and designated bulkhead feedthroughs for each set.

Software Configuration

System and testing will be controlled using emcware® software which is preloaded and delivered on a new PC as part of overall system.

Design Approach

Self-contained equipment rack with internal pre-wired RF and power with automatic RF switching via SCP2000. AC power is filtered and distributed through an internal power distribution unit. All RF equipment input and outputs are on rear-panel of devices.

Export Classification

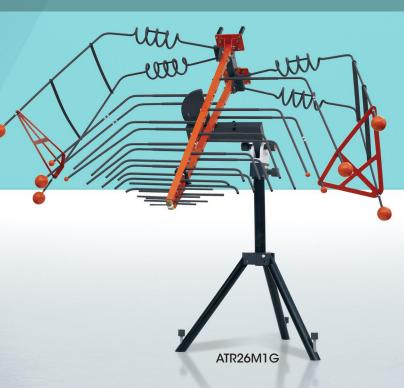
3A001

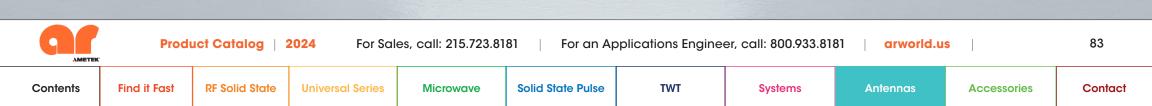
81 Product Catalog 2024 For Sales, call: 215.723.8181 For an Applications Engineer, call: 800.933.8181 arworld.us AMETER Contents **Find it Fast RF Solid State** Solid State Pulse TWT Contact **Universal Series** Microwave Systems **Antennas** Accessories

3A001

Antennas

AR offers a wide range of high power, log periodic, high-gain horn, and bent element antennas, and more. With antennas available up to 50 GHz and 20,000 W of input CW power, our innovative antennas offer features available exclusively from AR.





Antennas

Log-Periodic

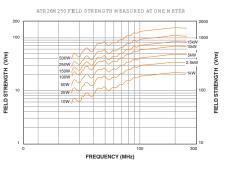
ATR26M250 26 – 250 MHz 15000 W

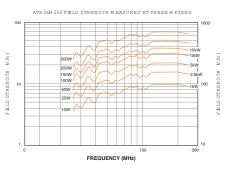
Frequency range	26 – 250 MHz
Power input (max.)	15000 W
Gain (over isotropic)	–3 to +6 dBi (26 – 80 MHz) 6 dBi (80 – 250 MHz)
Gain flatness	±1.5 dBi (80 – 250 MHz)
Impedance	50 ohms nominal
VSWR (max.)	3.5:1 (80 – 250 MHz) 10:1 (26 – 80 MHz)
Beamwidth (average)	Typical curves available on request
Connector	1 5/8 EIA
Size (w x h x d)	279.4 x 53.6 x 202.4 cm (110 x 21.1 x 79.7 in.)
Weight (max.)	31.8 kg (70 lb.)

Mounting

May be mounted in two perpendicular planes using an optional antenna positioner (AP5010B). One non-metallic mast (4 foot) is included for vertical mounting.







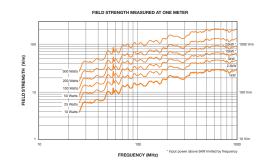
ATR26M1G 26 MHz – 1 GHz 20000 W

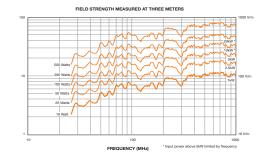
Frequency range	26 MHz-1 GHz
Power input, CW	20 kW @ 26 MHz, derate to 5 kW @ 1000 MHz
Gain (over isotropic)	–8 to 0 dB (26–80 MHz) 0–6 dB (80–1000 MHz)
Gain flatness	±3 dB (80-1000 MHz)
Impedance	50 ohms nominal
VSWR (max.)	6:1 (26–80 MHz) 3.5:1 (80–1000 MHz)
Beamwidth (average)	Typical curves available on request
Connector	1 5/8 EIA male with removable center bullet
Size (W X H X D)	231 x 66 x 183 cm (91 x 26 x 72 in.)
Weight (max.)	29.5 kg (65 lb.)

Mounting

May be mounted in two perpendicular planes using an optional antenna positioner (AP5010B). One non-metallic mast (4 foot) is included for vertical mounting.







Аметек		uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	s	84
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Antennas

Log-Periodic

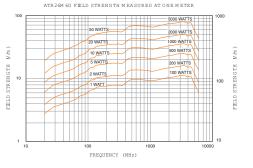
ATR26M6G 26 MHz – 6 GHz 5000 W

Frequency range	26 MHz – 6 GHz
Power input (max.)	5000 W
Gain (over isotropic)	−3 to +6 dBi (26 − 80 MHz) 6 dBi (80 MHz − 6 GHz)
Gain flatness	±1.5 dB (80 – 6 GHz)
Impedance	50 ohms nominal
VSWR (max.)	3:1 (80 – 6 GHz) 10:1 (26 – 80 MHz)
Beamwidth (average)	Typical curves available on request
Connector	Type N (F) quick change connector
Size (w x h x d)	279.4 x 53.6 x 202.4 cm (110 x 21.1 x 79.7 in.)
Weight (max.)	22.7 kg (50 lb.)
Mounting	

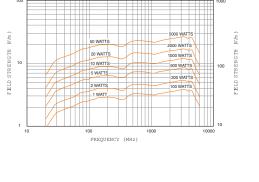
Mounting

May be mounted in two perpendicular planes using an optional antenna positioner (AP5010B). One non-metallic mast (4 foot) is included for vertical mounting.





ATR26M 6G FELD STRENGTH MEASURED AT THREE METERS



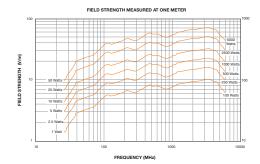
ATR26M6G-1 26 MHz - 6 GHz 5000 W

Frequency range	26 MHz – 6 GHz					
Power input (max.)	5000 W					
Gain (over isotropic)	-4 to 6 dB (26 - 80 MHz) 6 dB (80 MHz - 6 GHz)					
Gain flatness	±1.5 dB (80 MHz – 6 GHz)					
Impedance	50 ohms nominal					
VSWR (max.)	6:1 (26 – 80 MHz) 3:1 (80 MHz – 6 GHz)					
Beamwidth (average)	Typical curves available on request					
Connector	Type N (F) quick change connector; Type C (F) supplied for higher power applications					
Size (w x h x d)	218.4 x 73.7 x 161.3 cm (86 x 29 x 63.5 in.)					
Weight (max.)	13.6 kg (30 lb.)					

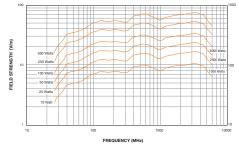
Mounting

May also be mounted using the optional AP5010B antenna ositioner or the TP1000BM3 tripod with ballast tray. Also includes 2 non-metallic masts (4 and 6 feet) vertical mounting.





FIELD STRENGTH MEASURED AT THREE METERS

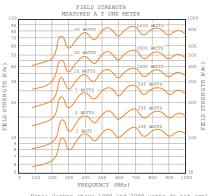


Аметек	Produ	uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	s	85
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

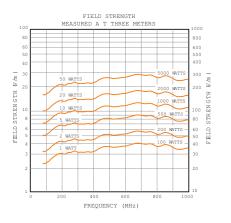
Log-Periodic

ATL80M1G 80 MHz - 1 GHz 5000 W

Frequency range	80 MHz – 1 GHz
Power input (max.)	5000 W
Gain (over isotropic)	6.5 dBi min. 7.5 dBi avg.
Gain flatness	±1 dB
Impedance	50 ohms nominal
VSWR (max.)	1.8:1 (max.) 1.5:1 (average)
Beamwidth (average)	E plane 60° H plane 105°
Front to back ratio (min.)	15 dB
Connector	Type N (F) quick change connector Type C (F) supplied for higher power applications
Size (w x h x d)	193 x 13 x 160 cm (76 x 5.1 x 63 in.)
Weight (max.)	7.7 kg (17 lb)
Mounting May be mou	nted using the optional TP1000B tripod.



Note: Curves above 1000 and 2000 watts do not appl past powerforquency limits of the antenna.



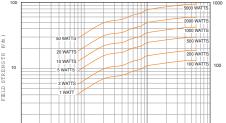
ATR80M6G 80 MHz - 6 GHz 5000 W

Frequency range	80 MHz-6 GHz
Power input (max.)	5000 W
Gain (over isotropic)	6 dBi
Gain flatness	±2 dB
Impedance	50 ohms nominal
VSWR (max.)	3:1 2:1 (typical)
Beamwidth (average)	Typical curves available on request
Connector	Type N (F) quick change connector
Size (w x h x d)	132.1 x 20.32 x 97.8 cm (52 x 8 x 38.5 in.)
Weight (max.)	7.94 kg (17.5 lb.)

Mounting

May be tripod mounted in two perpendicular planes using optional tripod. Also includes one non-metallic mast for vertical mounting.

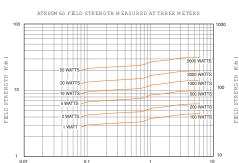




FREQUENCY (GHz)

0.1

ATR 80M 6G FIELD STRENGTH MEASURED AT ONE METER



FREQUENCY (GHz)

Аметек	Prode	uct Catalog	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.818	81 arworld.u	s	86
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

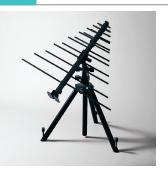


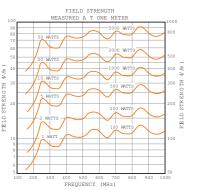
1 x 20.32 x 97.8 cm

Log-Periodic

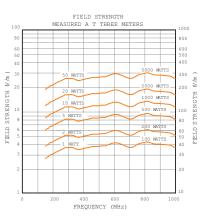
ATL150M1G 150 MHz – 1 GHz 5000 W

Frequency range	9	150 MHz – 1 GHz
Power input (mo	IX.)	5000 W
Gain (over isotro	pic)	6.5 dBi min., 7.5 dBi avg.
Gain flatness		±1 dB
Impedance		50 ohms nominal
VSWR (max.)		1.8:1 (max.) 1.5:1 (average)
Beamwidth (average)		E plane 60° H plane 105°
Front to back ra	tio (min.)	15 dB
Connector		Type N (F) quick change connector Type C (F) supplied for higher power applications
Size (w x h x d)		102 x 13 x 91 cm (40 x 5.1 x 36 in.)
Weight (max.)		7 kg (15 lb.)
Mounting	May be mo	unted using the optional TP1000B tripod.





Note: Curves above 1000 and 2000 watts do not app past powerfequency limits of the antenna.



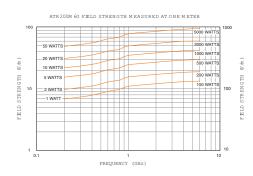
ATR200M6G 200 MHz - 6 GHz 5000 W

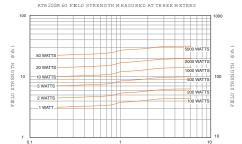
200 MHz – 6 GHz
5000 W
6 dBi
±1.5 dB
50 ohms nominal
3:12:1 (typical)
Typical curves available on request
Type N (F) quick change connector
82.6 x 17.8 x 57.2 cm (32.5 x 7 x 22.5 in.)
5 kg (12 lb.)

Mounting

May be tripod mounted in two perpendicular planes using optional tripod. Also includes one non-metallic mast for vertical mounting.







FREQUENCY (GHz)

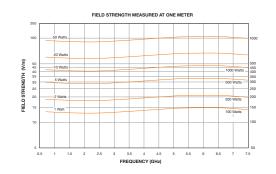
		Product Catalog 2024		For Sales, call: 215.723.8181 F		For an Applications Engineer, call: 800.933.8181			arworld.us	
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	TWT	Systems	Antennas	Accessories	Contact

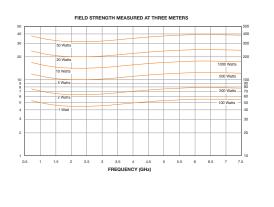
Log-Periodic

ATT700M8G 700 MHz – 7.5 GHz 1200 W

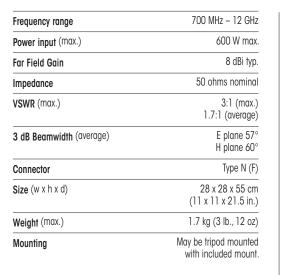
Frequency range	700 MHz-7.5 GHz
Power input (max.)	1,200 W
Gain (over isotropic)	8 dBi typ.
Impedance	50 ohms nominal
VSWR (max.)	3:1 (max.) 1.7:1 (average)
Beamwidth (average)	E plane 57° H plane 60°
Connector	7–16 DIN (F)
Size (w x h x d)	28 x 28 x 56 cm (11 x 11 x 22 in.)
Weight (max.)	1.8 kg (4 lb.)
Mounting	May be tripod mounted with included mount.



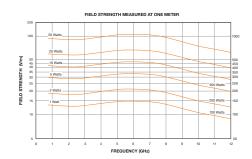


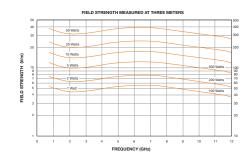


ATT700M12G 700 MHz – 12 GHz 600 W









С		uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	s	88
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Horn

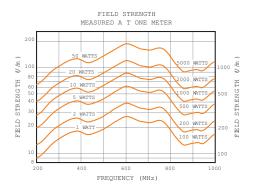
ATH200M1G 200 MHz – 1 GHz 5000 W

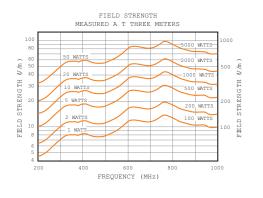
Frequency range	200 MHz – 1 G	Hz			
Power input (mo	x.) 5000	W			
Gain (over isotro	bic) 10 dBi min typically increasing 18 dBi at 1000 M				
Impedance	50 ohms nomir	nal			
VSWR (max.)	2.5:1 max., 1.5:1 av	vg.			
Beamwidth (ave	age) Typical curve available on reque				
Connector	Type 1–5/8 EIA Flange, Quick Change Connec	tor			
Size (w x h x d)	109.2 x 145.8 x 175.3 cm (43 x 57 x 69 in.)				
Weight (max.)	46 kg (100 l	b.)			

Mounting

Heavy-duty tripod included. Pads with 3/8-16 thread for stand mounting vertically or horizontally.







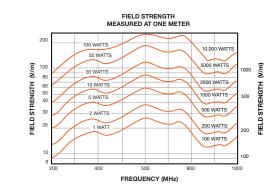
ATH200M1G-1 200 MHz - 1 GHz 10000 W

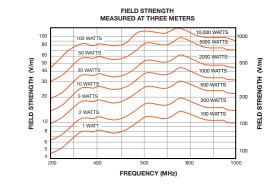
Frequency range	200 MHz-1 GHz
Power input (max.)	10000 W
Gain (over isotropic)	10 dBi min. typically increasing to 18 dBi at 1000 MHz
Impedance	50 ohms nominal
VSWR (max.)	2.5:1 max., 1.5:1 avg.
Beamwidth (average)	Typical curves available on request
Connector	Type 1–5/8 EIA Flange,
Size (w x h x d)	109.2 x 145.8 x 175.3 cm (43 x 57 x 69 in.)
Weight (max.)	46 kg (100 lb.)

Mounting

Heavy-duty tripod is available. Pads with 3/8-16 thread for stand mounting vertically or horizontally.







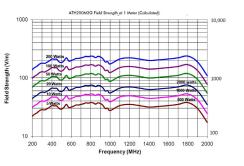
	Produ	uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	90
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

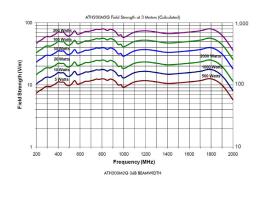
Horn

ATH200M2G 200 MHz – 2 GHz 1000 W

Frequency range	200 MHz – 2 GHz					
Power input (max.)	1000 W					
Gain (over isotropic	6 dBi typ.					
VSWR (typ.)	2:1					
Beamwidth (avg.) E Plane H Plane	(beamwidth graph available on request)					
Front To Back Ratio	(min.) 20 dBi					
Connector	N (f) Precision					
Size (w x h x d)	72.9 x 97.8 x 93.2 cm (28.7 x 38.5 x 36.7 in.)					
Weight	10.21 kg (22.5 lb.)					







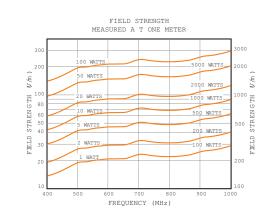
ATH400M1G 400 MHz – 1 GHz 4700 W

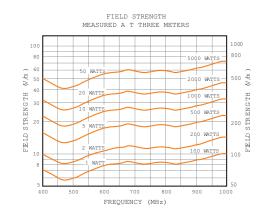
400 MHz – 1 GHz
See graphs in specification
10 dBi min. typically increasing to 15 dBi at 1000 MHz
50 ohms nominal
2.5:1 max., 1.5:1 avg.
See curve
Quick Change block See Model Configurations
56.4 x 79.3 x 73.7 cm (22.2 x 31.2 x 29 in.)
9.1 kg (20 lb.)

Mounting

Rear flange for wall mount. Pads with 1/4-20 thread for tripod mount.







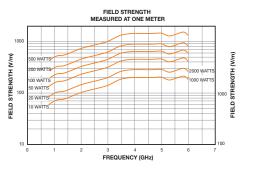
Аметек		uct Catalog	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	91
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Horn

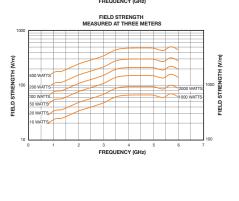
ATH800M6G 800 MHz – 6 GHz 2300 W

Frequency range	800 MHz–6 GHz
Power input (max.)	2,300 W
	(connector dependent)
Gain	11 dBi typ,increasing to 22 dBi at 6 GHz
VSWR (max.)	
Max.	2.5:1
Average	1.6:1
Beamwidth (avg.) at 3	3 dBi down from peak
E Plane	27.5°
H Plane	25°
Connector	7–16 DIN (F), quick change connector
Size (w x h x d)	46.3 x 46.3 x 69.2 cm
	(18.25 x 18.25 x 27.25 in.)
Weight (max.)	7.26 kg (16 lb.)





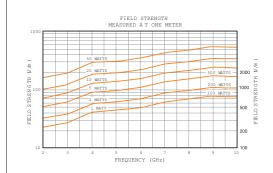
FREQUENCY (GHz)

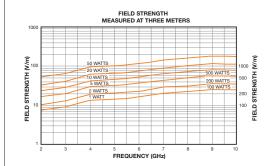




Frequency range	2 – 10 GHz
Power input (max.)	700 W
Gain	12.5 dBi typ. increasing to 23 dBi at 10 GHz
VSWR (max.)	
Max.	2:1
Average	1.5:1
Beamwidth (avg.) at 3 (dBi down from peak
E Plane	25
H Plane	27°
Connector	N (F)
Size (w x h x d)	22.9 x 17.8 x 31.75 cm (9 x 7 x 12.5 in.)
Weight (max.)	1.59 kg (3.5 lb.)







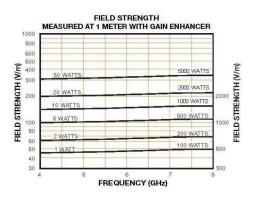
Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	92
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

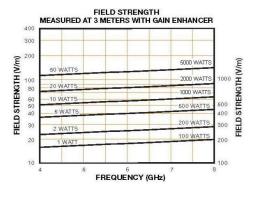
Horn

ATH4G8 4 - 8 GHz 1200 W

Frequency range	4 – 8 GHz
Power input (max.)	1200 W
Gain	11.5 dBi typ., increasing to 15.9 dBi at 8 GHz
	17.8 dBi min., increasing to 21.2 dBi at
	8 GHz with gain enhance
VSWR (max.) Max. Average	1.6:1 1.3:1
Beamwidth (avg.) at 3 dBi dow	n from peak
E Plane	18° with gain enhancer
H Plane	18° with gain enhance
Connector	N (F)
	Quick change connector
Size (w x h x d)	without gain enhance 7.62 x 10.3 x 15.14 cm (3.0 x 4.06 x 5.96 in) with gain enhancer 21.6 x 21.6 x 30.5 cm (8.5 x 8.5 x 12 in.)
Weight (max.)	



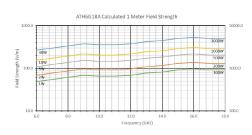


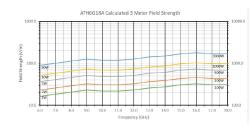


ATH6G18A 6 - 18 GHz 3000 W

Frequency Range:		6 – 18 GHz			
Average Power Input:		3000 W maximum Consult factory 19–25 dBi (see curve) 1.5:1 Typical 17°–7°, E–Plane (see curve) 18°–9°, H–Plane (see curve)			
Peak Power Input:		Consult factory			
Far Field Gain (over is	sotropic):	., 20 45			
VSWR:		1.5:1 Typical			
Beam Width (3 dB):		(/			
Connector:		WRD-650 D28 waveguide, cover ernating thru/tapped hole pattern			
Weight:		1.13 kg (2.50 lbs)			
Size:	19 x	13.8 x 33 cm (7.5 x 5.4 x 13 in)			
Mounting Provision:		Tripod mounting bracket with ¼–20 tapped hole			
Export Classification:		EAR99			







Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.818	31 arworld.us	5	93
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	TWT	Systems	Antennas	Accessories	Contact

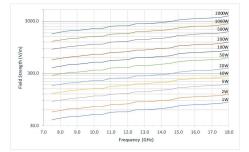
Horn

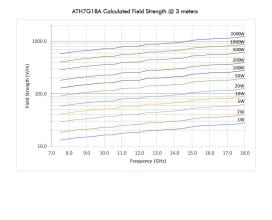
ATH7G18A 7.5 – 18 GHz 2800 W

Frequency range	7.5 – 18 GHz
Power input (max.)	2,800 W
Gain	17 dBi typ. increasing to 23.8 dBi at 18 GHz
VSWR (†yp.)	1.5:1
Beamwidth (avg.) at 3 dBi dow	n from peak
E Plane	see spec. sheet
Connector	WRD-750 waveguide
Size (w x h x d)	9 x 10.8 x 20.6 cm
	(3.54 x 4.25 x 8.11in).
Weight (max.)	0.35 kg (0.77 lb.)



ATH7G18A Calculated Field Strength @ 1 meter

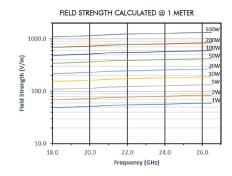


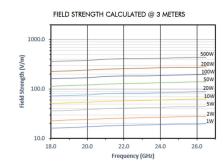


ATH18G27A 18 – 26.5 GHz 350 W

Frequency range	18 – 26.5 GHz
Power input (max.)	350 W CW
Gain	See Graph in Specification
VSWR	Typical 1.25:1
Beamwidth (avg.)	See Graph In Specification
Connector	WR-42 waveguide
Size (w x h x d)	6.43 x 5.03 x 9 cm (2.53 x 1.98 x 3.54 in)
Weight (max.)	150 g (5.3 oz)







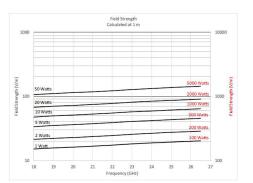
	Produ	uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.818	31 <mark>arworld.u</mark> s	S	94
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

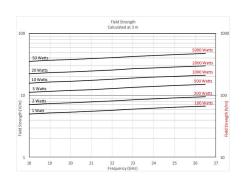
Horn

ATH18G27A-1 18 - 26.5 GHz 350 W

WARRANT MARKAN	

18 – 26.5 GHz			
350 W CW			
8.8 dBi typ., increasing to 11.3 dBi at 26.5 GHz.			
1.4:1			
1.2:1			
57°			
55°			
WR-42 waveguide			
2.2 x 2.2 x 3.2 cm (0.88 x 0.88 x 1.25 in.)			
241 g (8.5 o			

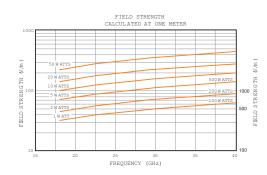


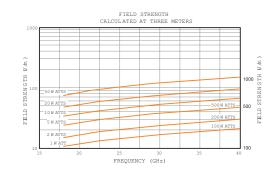


ATH18G40 18 - 40 GHz 450 W

Frequency range	18 – 40 GHz
Power input (max.)	450 W
Gain	See Graph
VSWR (max.)	
Max.	1.5:1
Average	1.3:1
Beamwidth (avg.)	See Graph
Connector	WRD 180 C24 waveguide
Size (w x h x d)	3.73 x 2.69 x 6.27 cm
	(1.47 x 1.06 x 2.47 in.)
Weight (max.)	56.7 g (2 oz)







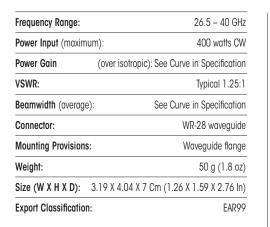
Аметек		uct Catalog	2024 For Sale	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	95
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Horn

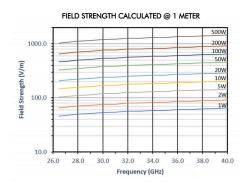
Frequency range	26.5 – 40 GHz
Power input (max.)	240 W
Gain (over isotropic)	9 dBi typ.,
	increasing to 12 dBi at 40 GHz.
VSWR	
Max.	1.3:1
Average	1.2:1
Beamwidth (avg.) at 3 dB	i down from peak
E Plane	57.5°
H Plane	56.5°
Connector	WR-28 waveguide
Size (w x h x d)	1.9 x 1.9 x 2.54 cm (0.75 x 0.75 x 1.0 in.)
Weight	122 g (4.3 oz)

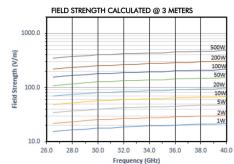


ATH26G40A 26.5 - 40 GHz 400 W

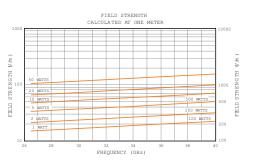


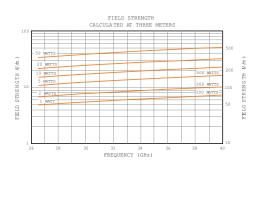






С	Prode	uct Catalog 3	2024 For Sal	les, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	97
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact



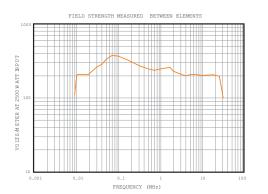


Horn / E-Field Generators

ATE10K25M-1 10 kHz - 25 MHz 3000 W

Frequency Range	10 kHz – 25 MHz
Power Input (max)	3000 W CW
Impedance	50 ohms
VSWR	2:1 max., 10 kHz–20 MHz 3.5:1 max., 20 MHz–25 MHz
Electric Field Intensity	200 volts/meter
Connector*	Type C (F)
Size (W x H x D)	303.53 x 222.25 x 101.8 cm (119.5 x 87.5 x 40 in.)
Weight (max.)	113 kg (250 lb.)





ATE10K30MA 10 kHz – 30 MHz 1000 W

without cooling option

with forced-air cooling

Connector

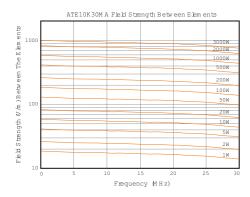
Frequency range		10 kHz – 30 MHz
Power Input (max)		
without cooling optic	on*	1000 W continuous
with forced-air cooli	ng option*	3000 W, 50% duty cycle
VSWR		
10 kHz-15 MHz		2:1 Max
15 MHz-22 MHz		3:1 Max
22 MHz-30 MHz		5:1 Max
Electric Field Intensity		See graph
Mounting Provisions	UNC	4–20 tripod thread on 2 sides (optional tripod available)
Size	188 x 7	2 x 7 cm (74 x 28.3 x 2.5 in.)
	(field–generatir	ng elements are removable for
		storage and transportation)

17 kg (38 lb.)

21 kg (46 lb.)

Type C(F) Quick Change





	Produ	uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	S	98
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

E-Field Generators

ATE10K100M 10 kHz – 100 MHz 500 W

 Frequency range
 10 kHz – 100 MHz

 Power input
 500 W max.

 Input Impedance
 50 ohms nominal

 VSWR
 2.5:1 max., 1.4:1 typical

 Electric field intensity
 See graphs.

 Field Intensity
 See graphs.

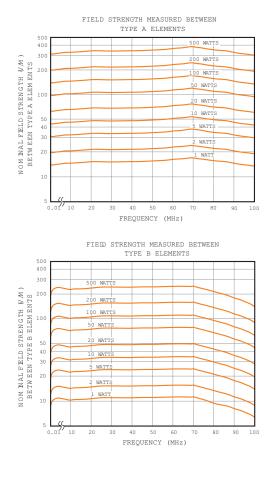
 Field Intensity
 between Type A elements

 nominally 350 V/m with 500 W input
 between Type B elements

nominally 200 V/m with 500 W input

Max. Test O	oject Volume
-------------	--------------

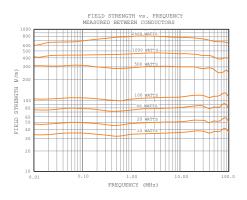
wux. resi objeci volume	
between Type A elements	36 x 46 x 36 cm
	(14 x 18 x 14 in.)
between Type B elements	48 x 46 x 36 cm
	(19 x 18 x 14 in.)
Connector*	Type N (F)
Size	
with Type A elements	74 x 41 x 102 cm
	(29 x 16 x 40 in.)
with Type B elements	104 x 41 x 102 cm
	(41 x 16 x 40 in.)
Weight (max.)	13 kg (28 lb.)
Mounting	Accepts tripod threaded
•	1/4 x 20 stud on three faces
	(optional tripod available)
	(

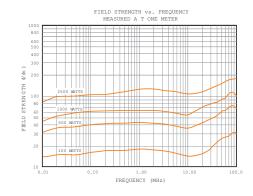


ATP10K100M 10 kHz – 100 MHz 3000 W

Frequency range	10 kHz – 100 MHz
Power input (max)	3000 W CW
Input impedance	50 ohms
VSWR	2:1 max. 10 kHz–100 MHz 6:1 max. 10–20 kHz above 1 kW input power
Electric field intensit	y See Figure
Connector	See Specification for Model Configurations
Natural convection to	o 40°C ambient temperature
Weight	95 kg (210 lb.)
X	







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Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

AR offers a complete selection of test accessories that give you the most reliable results, such as probes, software, system controllers, couplers, and more. Many even make testing quicker, more efficient, and more accurate. They're all matched to our amplifiers to make your setup as easy as possible.

FL8000 Probes and FM7004A

31.93 350.39

190.85



Product Catalog

Find it Fast

2024

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For an Applications Engineer, call: 800.933.8181

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Antennas

102

Contents

RF Solid State Universal Series

Solid State Pulse Microwave

TWT

Systems

Stormonitor® Model FM7004A Field Monitor

Accessories

Contact

Coaxial Cables

CC1

Armored low-loss microwave cables for applications with frequencies less than 18 GHz, VSWR typically less than 1.35:1

CC2

Armored low-loss microwave cables for applications with frequencies less than 40 GHz. VSWR is typically less than 1.45:1

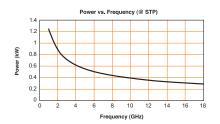
CC4

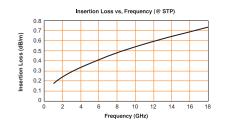
Recommended for AR's high power "A," "W," and "S" series amplifiers or other applications with frequencies less than 6 GHz. VSWR is typically less than 1.25:1.

CC5

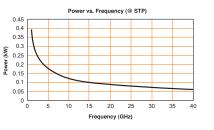
Low-loss microwave cables designed for higher power applications with frequencies up to 11 GHz. VSWR typically less than 1.25:1.

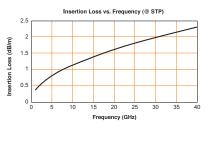






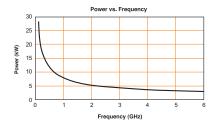


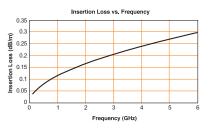


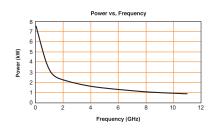


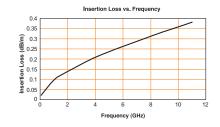














Dual Directional Couplers and Termination Loads for RF Amplifiers

Amplifier	Dual Directional Coupler	Load Resistor or Attenuator	Α
Universe	al Series Ampl	ifiers	80
1U1000	DC3010A	LA100	500
2.501000	DC3010A	LA100	100
5U1000	DC3010A	LA100	200
10U1000	DC3010A	LA100	300
25U1000	DC3010A	LA100	400
50U1000	DC3010A	LA100	600
100U1000A	DC3100A	LA150	1000
250U1000A	DC3100A	LA500	
500U1000	Call Factory		
			1
RF Soli	d State Amplif	iers	30
100A400AM20	DC3300A	LA150	3
150A100D	DC3400A	LA250	6
1200A225B	DC2500AM2	LA4000	12
2500A225C	DC2035A	LA4000	25
5000A225C	DC4255		50
10000A225B	DC4256		75
25A250B	DC3010A	LA100	100
50A250	DC2600A	LA100	200
125A250	DC2600A	LA150	75
500A250D	DC2500AM1	LA1000	12
100A400A	DC3400A	LA150	25
175A400	DC3401A	LA250	35
250A400	DC3401A	LA500	50
350A400	DC3401A	LA500	125
600A400	DC3410A	LA1000	250
1000A400	DC3410A	LA4000	500
50W1000D	DC3001A	LA100	1000
125W1000A	DC6080A		20

DC6080A

DC6180A

LA250

LA500

150W1000B

250W1000C

Amplifier	Dual Directional Coupler	Load Resistor or Attenuator	
800W1000	DC6280AM1		
500W1000C	DC6180A	LA1000	
1000W1000H	DC6280AM1	LA4000	
2000W1000E	DC6380	LA4000	
3000W1000B	DC6380M1	LA4000	
4000W1000B	DC6380M2	LA4000	
6000W1000	DC6430		
10000W1000A	DC6440		
Micro	wave Amplifie	ers	
15\$1G6	DC7205A	LA100	
30\$1G6C	DC7205A	LA100	
30\$1G6	DC7205A		
60\$1G6	DC7205A		
125\$1G6	DC7205A		
250\$1G6	DC7230A		
500\$1G6A	DC7215A		
750\$1G6C	DC7240A		
1000\$1G6C	Call Factory		
2000\$1G2z8	DC7128AM6		
75\$1G6C	DC7205A	LA100	
125\$1G6C	DC7205A	LA150	
250\$1G6C	DC7210A		
350\$1G6A	DC7210A		
500\$1G6C	DC7215A		
125\$1G2z5	DC7144A	LA150	
250\$1G2z5B	DC7144A	LA500	
500\$1G2z5A	DC7154AM1	LA1000	
1000\$1G2z5B	DC7164M1		
20\$6G18C	DC7435AM1	LA100	
40\$6G18C	DC7435AM1	LA100	
75\$6G18C	DC7435AM1		

Amplifier	Dual Directional Coupler	Load Resistor or Attenuator
125\$6G18C	DC7445	
250\$6G18C	DC7445	
Solid Stat	e Pulsed Amp	lifiers
2000SP0z8G2z5	DC7154A	
12000SP1z2G1z4	DC7128A	
9000SP1z2G1z4	DC7128A	
6000SP1z2G1z4	DC7128A	
18000SP1z2G1z4	Call Factory	
1000SP0z8G2z5	DC7154A	
4000SP0z8G2z5	DC7154A	
8000SP0z8G2z5	DC7128A	
1300SP1G2	DC7154A	
2000SP1G2	DC7154A	
4000SP1G2	DC7128A	
8000SP1G2	DC7128A	
4000SP1z2G1z4	DC7128A	
1500/1000SP1z2G3z1	DC7154A	
1000SP2G4	DC7154A	
2000SP2G4	DC7154A	
5000SP2G4	DC7154AM1	
7000SP2G4	DC7154AM1	
10000SP2G4	DC7154AM1	
4000SP2z7G3z1	Call Factory	
12000SP2z7G3z1	Call Factory	
8000SP2z7G3z1	Call Factory	
TW	T Amplifiers	
300T2G8	DC7281A	LR2000M1

DC7281A

DC7276M1

DC7276M1

LR2000M1

LR2000M1

LR2000M1

Amplifier	Dual Directional Coupler	Load Resistor or Attenuator
200T4G8	DC7281A	
250T6G18	DC7445	
250T8G18	DC7450M1	LR1500M1
500T8G18	DC7450M1	LR1500M1
1000T8G18B	DC7450M1	LR1500M1
1500T8G18	DC7450M1	LR1500M1
40T18G26A	DC7530	
130T18G26z5B	DC7530	
200T18G26z5A	DC7530	
40T26G40A	DC7620	
130T26z5G40B	DC7620	
500T6G18	DC7445	
200T26z5G40A	DC7620	
70T40G50	DC7820	
100T40G50	DC7820	
1000TP8G18	DC7450M1	LR1500M1
2000TP2G8B	DC7281A	LR2000M1
2000TP8G18	DC7450M1	
4000TP2G4	DC7281A	LA500
4000TP4G8	DC7351	
4000TP8G12	DC7490	
20000TP8G12	DC7490	
3000TP12G18	DC7462	
5700TP12G18	DC7462	
6900TP2G4	DC7154AM1	
7400TP4G8	DC7351	
8000TP2z7G3z1	DC7154AM1	
8300TP8G12	DC7490	

Dual Directional Load Resisto

	Produ	uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	plications Enginee	er, call: 800.933.818	31 arworld.u	s	104
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

500T2G8

1000T2G8B

1500T2G8A

Dual Directional Couplers

DC3300A 4 kHz – 400 MHz 250 W

0	٠	et akras koras	entrettes del DC3300A MHz, 50 dB, 250 5 Made in U.S	•		
		SN 035545	5 Made in U.S			X
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4 kHz – 400 MHz
250 CW
± 1.5 dB (4 –10 kHz) ± .75 dB (0.01 – 400 MHz)
50 ± 1.5 dB (4 -10 kHz) 50 ± 1 dB (0.01 - 400 MHz)
20 dB 15 dB
0.2 dB
1.2:1 max.
N(M)/N(F) N(F)/N(F)
0.36 kg 0.8 lb.
19.3 x 5.1 x 5.6 cm (7.6 x 2 x 2.2 in.)

DC3510A 9 kHz – 1000 MHz 200 W



Frequency Range	9 kHz – 1000 MHz
Power (max. W)	200 CW
Flatness (max.)	± 0.6 dB
Coupling Factor (includes flatness)	$40 \pm 0.8 \text{ dB}$
Directivity typical minimum	25 dB 20 dB (0.01 – 1000 MHz) 15 dB (0.009 – 0.01 MHz)
Insertion Loss (max.)	0.5 dB
VSWR (main line)	1.3:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	1.36 kg 3 lb
Size (approx.) W x H x D	15.7 x 5.8 x 4.3 cm (6.2 x 2.28 x 1.69 in.)

DC2500AM1 10 kHz – 250 MHz 1000 W



Frequency Range	10 kHz – 250 MHz
Power (max. W)	1000 CW
Flatness (max.)	± 0.9 dB
Coupling Factor (includes flatness)	50 ± 1 dB
Directivity typical minimum	25 dB 20 dB (20 kHz–250 MHz) 18 dB (10 kHz–20 kHz)
Insertion Loss (max.)	0.22 dB
VSWR (main line)	1.2:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	1.13 kg 2.5 lb
Size (approx.) W x H x D	26.6 x 8.1 x 7.6 cm (10.1 x 3.2 x 3 in.)

DC2035A 10 kHz – 250 MHz 3500 W



Frequency Range	10 kHz – 250 MHz
Power (max. W)	3,500 CW
Flatness (max.)	± 0.9 dB
Coupling Factor (includes flatness)	50 ± 1 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.30 dB
VSWR (main line)	1.2:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7–16(M)/7–16(F) N(F)/N(F)
Weight (max.)	1.8 kg 4 lb.
Size (approx.) W x H x D	25.4 x 8.9 x 11.7 cm (10 x 3.5 x 4.6 in.)

	Produ	uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	105
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Dual Directional Couplers

DC4255* 10 kHz – 250 MHz 10000 W



Frequency Range	10 kHz – 250 MHz
Power (max. W)	10000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	60 ± 1 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.1 dB
VSWR (main line)	1.20:1 max.
Connectors	
main line (J1/J2)	EIA fixed flanges
	1 ⁵ / ₈ in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	7 kg
· · ·	15.5 lb.
Size (approx.) W x H x D	15.2 x 11.4 x 30.48 cm
··· /	(6 x 4.5 x 12 in.)
*Power required for fan cooling."	

DC4256* 10 kHz – 250 MHz 13000 W



Frequency Range	10 kHz – 250 MHz
Power (max. W)	13000 CW
Flatness (max.)	±1 dB
Coupling Factor (includes flatness)	60 ± 1 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.1 dB
VSWR (main line)	1.20:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	EIA fixed flanges 1 ⁵ / ₈ in. EIA (M) N(F)/N(F)
Weight (max.)	7 kg 15.5 lb
Size (approx.) W x H x D	15.24 x 11.43 x 32.38 cm (6 x 4.5 x 12.75 in.)

*Power required for fan cooling."

DC3400A 10 kHz – 400 MHz 250 W



Frequency Range	10 kHz – 400 MHz
Power (max. W)	250 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	40 ± 1 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.5 dB
VSWR (main line)	1.3:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.8 kg 1.8 lb
Size (approx.) W x H x D	13.2 x 6.8 x 4.1 cm (5.2 x 2.7 x 1.6 in.)

DC3401A 10 kHz – 400 MHz 500 W



Frequency Range	10 kHz – 400 MHz
Power (max. W)	500 CW
Flatness (max.)	± 0.6 dB
Coupling Factor (includes flatness)	50 dB ±0.8 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.5 dB
VSWR (main line)	1.30:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.8 kg 1.8 lb.
Size (approx.) W x H x D	13.2 x 6.8 x 4.32 cm (5.2 x 2.7 x 1.7 in.)

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Dual Directional Couplers

DC3410A 10 kHz - 400 MHz 2000 W



Frequency Range	10 kHz - 400 MHz
Power (max. W)	2000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	50 dB ± 1dB
Directivity minimum	20 dB
Insertion Loss (max.)	0.15 dB max
VSWR (main line)	1.2:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7 - 16 (M)/7 - 16 (F) N(F)/N(F)
Weight (max.)	1.25 kg 2.75 lb
Size (approx.) W x H x D	18.3 x 5.6 6.9 cm (7.2 x 2.2 x 2.71 in)

DC3010A 10 kHz – 1000 MHz 100 W



Frequency Range	10 kHz – 1000 MHz		
Power (max. W)	100 CW		
Flatness (max.)	± 0.6 dB		
Coupling Factor (includes flatness)	40 ± 0.8 dB		
Directivity			
typical	25 dE		
minimum	20 dE		
Insertion Loss (max.)	0.6 dE		
VSWR (main line)	1.3:1 max		
Connectors			
main line (J1/J2)	N(M)/N(F)		
coupled (J3/J4)	N(F)/N(F)		
Weight (max.)	0.9 kg		
- · ·	2 lb		
Size (approx.) W x H x D	12.7 x 5.1 x 3.8 cm		
	(5 x 2 x 1.5 in.)		

DC3100A 10 kHz - 1000 MHz 500 W

DC3001A 100 kHz – 1000 MHz 100 W



10 kHz – 1000 MHz
500 CW
± 0.5 dB
40 ± 1.5 dB
25 dB 20 dB
0.45 dB
1.30:1 max.
N(M)/N(F) N(F)/N(F)
1.1 kg 2.5 lb
17 x 5.8 x 4.3 cm (6.7 x 2.27 x 1.69 in.)



Frequency Range	100 kHz – 1000 MHz
Power (max. W)	100 CW
Flatness (max.)	± 0.6 dB
Coupling Factor (includes flatness)	$40 \pm 0.8 \text{ dB}$
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.6 dB
VSWR (main line)	1.3:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.39 kg 0.86 lb.
Size (approx.) W x H x D	12.7 x 5.1 x 3.8 cm (5 x 2 x 1.5 in)

Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	s	107
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Dual Directional Couplers

DC6080A 80 – 1000 MHz 500 W



Frequency Range	80 – 1000 MHz
Power (max. W)	500 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	40 ± 1 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.25 dB
VSWR (main line)	1.2:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.45 kg 1 lb.
Size (approx.) W x H x D	7.62 x 7.62 x 2.77 cm (3 x 3 x 1.09 in.)

DC6180A 80 – 1000 MHz 600 W



Frequency Range	80 – 1000 MHz
Power (max. W)	600 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	60 ± 1 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.15:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.6 kg 1.2 lb
Size (approx.) W x H x D	10.9 x 6.3 x 3.2 cm (4.3 x 2.5 x 1.3 in.)

DC6280AM1 80 - 1000 MHz 1500 W



80 – 1000 MHz
1,500 CW
±0.5 dB
63 ± 1 dB
25 dB 20 dB
0.15 dB
1.2:1 max.
7–16(M)/7–16(F) N(F)/N(F)
0.6 kg 1.2 lb.
10.9 x 6.3 x 3.2 cm (4.3 x 2.5 x 1.3 in.)

DC6380 80 – 1000 MHz 3000 W



Frequency Range	80 – 1000 MHz
Power (max. W)	3000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	65 dB ± 1.5 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.5:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	EIA fixed flanges 1 ⁵ / ₈ in. EIA (M) N(F)/N(F)
Weight (max.)	1.8 kg 4 lb
Size (approx.) W x H x D	20.3 x 8.9 x 10.2 cm (8 x 3.5 x 4 in.)

Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	S	108
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Dual Directional Couplers

DC6380M1 80 - 1000 MHz 4500 W



Frequency Range	80 – 1000 MHz
Power (max. W)	4500 CW
	4000 011
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	68 ± 1.5 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.5:1 max.
Connectors	
main line (J1/J2)	EIA fixed flanges
	15/ ₈ in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	
	1.8 kg
	4 lb.
Size (approx.) W x H x D	
	20.3 x 8.9 x 10.2 cm
	(8 x 3.5 x 4 in.)

DC6380M2 80 – 1000 MHz 7000 W



Frequency Range	80 – 1000 MHz
Power (max. W)	7000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	70 ± 1.5 dB
Directivity	
typical	25 dB
minimum	20 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.5:1 max.
Connectors	
main line (J1/J2)	EIA fixed flanges
	15/, in. EIA (M)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	1.8 kg
	4 lb.
Size (approx.) W x H x D	20.3 x 8.9 x 10.2 cm
	(8 x 3.5 x 4 in.)

DC6430 80 – 1000 MHz 15000 W



Frequency Range	80 – 1000 MHz
Power (max. W)	15000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	68 dB ± 1 dB
Directivity typical minimum	20 dB 18 dB
Insertion Loss (max.)	0.1 dB
VSWR (main line)	1.15:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	EIA fixed/swivel 3 ¹ / ₈ in. EIA (M) N(F)/N(F)
Weight (max.)	3 kg 6.6 lb.
Size (approx.) W x H x D	15.2 x 13.2 cm (6 x 5.2 in.)

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TWT

DC6440 80 – 1000 MHz 15000 W



Frequency Range	80 – 1000 MHz
Power (max. W)	15000 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	70 dB ± 1 dB
Directivity typical minimum	20 dB 18 dB
Insertion Loss (max.)	0.1 dB
VSWR (main line)	1.10:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	EIA fixed/swivel 4 ¹ / ₁₆ in. EIA (m) N(F)/N(F)
Weight (max.)	3.5 kg 7.7 lb
Size (approx.) W x H x D	15.2 x 15.8 cm (6 x 6.2 in.)

Аметек		uct Catalog 3	2024 For Sal	les, call: 215.723.81	81 For an A
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse

Systems

Antennas Accessories

arworld.us

Contact

109

Dual Directional Couplers

DC7144A 0.7 - 4.2 GHz 400 W



Frequency Range	0.7 – 4.2 GHz
Power (max. W)	400 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	40 ± 1.3 dB
Directivity typical minimum	19 dB 15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.24 kg 0.525 lb.
Size (approx.) W x H x D	2.35 x 5.84 x 19 cm (0.925 x 2.3 x 7.48 in.)

DC7154A 0.7 - 4.2 GHz 400 W



Frequency Range	0.7 – 4.2 GHz
Power (max. W)	400 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	50 ± 1.3 dB
Directivity typical minimum	19 dE 15 dE
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.29 kg 0.64 lb
Size (approx.) W x H x D	3.2 x 6.3 x10.9 cm (1.3 x 2.5 x 4.3 in.)

DC7154AM1 0.7 - 4.2 GHz 700 W



Frequency Range	0.7 – 4.2 GHz
Power (max. W)	700 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	50 ± 1.3 dB
Directivity typical minimum	19 dB 15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max
Connectors main line (J1/J2) coupled (J3/J4)	7–16(M)/7–16(F) N(F)/N(F)
Weight (max.)	0.29 kg 0.64 lb
Size (approx.) W x H x D	3.2 x 6.3 x10.9 cm (1.3 x 2.5 x 4.3 in.)

DC7205A 0.7 - 6 GHz 250 W



Frequency Range	0.7 – 6GHz
Power (max. W)	250 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	41 ± 1.2 dB
Directivity typical minimum	18 dB 15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.2:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	6.8 x 5.1 x 3.05 cm (2.7 x 2 x 1.2 in.)

	Produ	uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	plications Engine	er, call: 800.933.818	81 arworld.u	s	110
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Dual Directional Couplers

DC7210A 0.7 - 6 GHz 500 W



Frequency Range	0.7 – 6 GHz
Power (max. W)	500 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	50 ± 1.2 dB
Directivity minimum	15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.35:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7–16(M)/7–16(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	54.6 x 50.8 x 34.5 mm

54.6 x 50.8 x 34.5 mm (2.15 x 2 x 1.36 in.)

2024

Universal Series

DC7230A 0.7 - 6 GHz 500 W



Frequency Range	0.7 – 6GHz
Power (max. W)	500 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	48 ± 1.5 dB
Directivity typical minimum	20 dB 15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.35:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb
Size (approx.) W x H x D	5.1 x 5.1 x 2.7 cm (2 x 2 x 1.06 in.)

DC7215A 0.7 – 6 GHz 750 W



Frequency Range	0.7 – 6 GHz
Power (max. W)	750 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	50 dB ± 1.5 dB
Directivity typical minimum	18 dB 15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.45:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7–16(M)/7–16(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	5.5 x 5.1 x 3.5 cm (2.15 x 2 x 1.36 in.)

DC7128A 0.8 - 2.8 GHz 1500 W



Frequency Range	0.8 – 2.8 GHz
Power (max. W)	1500 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	50 ± 1 dB
Directivity typical minimum	25 dB 20 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.3:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7–16(M)/7–16(F) N(F)/N(F)
Weight (max.)	0.7 kg 1.5 lb.
Size (approx.) W x H x D	7.6 x 7.6 x 2.9 cm (3 x 3 x 1.125 in.)

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Product Catalog

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TWT

181 arworld.us

Antennas

Contents

Find it Fast RF Solid State

Microwave

Solid State Pulse

Systems

Accessories

Contact

111

Dual Directional Couplers

DC7164M1 0.8 - 4.2 GHz 1400 W



Frequency Range	0.8 – 4.2 GHz
Power (max. W)	1400 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	65 ± 1 dB
Directivity typical minimum	19 dB 15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7/8 EIA N(F)/N(F)
Weight (max.)	0.91 kg 2 lb.
Size (approx.) W x H x D	5.71 x 8.25 x 15.25 cm (2.25 x 3.25 x 6 in.)

DC7164 0.8 – 4.2 GHz 700 W



Frequency Range	0.8 – 4.2 GHz
Power (max. W)	700 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	60 ± 1 dB
Directivity typical minimum	19 dB 15 dB
Insertion Loss (max.)	0.4 dB
VSWR (main line)	1.25:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7/8 EIA N(F)/N(F)
Weight (max.)	0.91 kg 2 lb.
Size (approx.) W x H x D	5.71 x 8.25 x 15.25 cm (2.25 x 3.25 x 6 in.)

DC7200A 1 – 6 GHz 250 W



Frequency Range	1 – 6 GHz
Power (max. W)	250 CW
Flatness (max.)	± 0.8 dB
Coupling Factor (includes flatness)	40 ± 1.2 dE
Directivity typical minimum	18 dE 15 dE
Insertion Loss (max.)	0.2 dE
VSWR (main line)	1.2:1 max
Connectors main line (J1/J2) coupled (J3/J4)	N(M)/N(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb
Size (approx.) W x H x D	6.8 x 5.1 x 3.05 cm (2.7 x 2 x 1.2 in.)

DC7240A 1 - 6 GHz 1200 W



Frequency Range	1 – 6 GHz
Power (max. W) 1 - 5 GHz 5 - 6 GHz	1200 CW 800 CW
Flatness (max.)	± 0.5 dB
Coupling Factor (includes flatness)	60 ± 1.0 dB
Directivity minimum	15 dB
Insertion Loss (max.)	0.2 dB
VSWR (main line)	1.45:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	7-16(M)/7-16(F) N(F)/N(F)
Weight (max.)	0.27 kg 0.6 lb.
Size (approx.) W x H x D	5.46 x 5.08 x 3.45 cm (2.15 x 2.0 x 1.36 in.)

	Produ	uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	S	112
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Dual Directional Couplers

DC7276M1 2.5 - 7.5 GHz 2800 W



Frequency Range	2.5 – 7.5 GHz
Power (max. W)	2800 CW
Flatness (max.)	± 2.5 dB
Coupling Factor (includes flatness)	50 ± 3 dB
Directivity typical minimum	28 dB 25 dB
Insertion Loss (max.)	0.3 dB
VSWR (main line)	1.1:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	WRD-250 N(F)/N(F)
Weight (max.)	1.7 kg 3.8 lb
Size (approx.) W x H x D	45.7 x 8.1 x 8.1 cm (18 x 3.2 x 3.2 in.)

DC7281A 2 – 8 GHz 600 W



Frequency Range	2 – 8 GHz
Power (max. W)	600 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	50 dB ± 2 dB
Directivity minimum	15 dB
Insertion Loss (max.)	0.6 dB max
VSWR (main line)	1.40:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	N(F)/N(F)
Weight (max.)	0.25 kg
	0.55 lb
Size (approx.) W x H x D	9.78 x 3.07 x 2.03 cm
	(3.85 x 1.20 x 0.80 in.)







Frequency Range	4 – 8 GHz
Power (max. W)	6000 CW
Flatness (max.)	± 1.5 dB
Coupling Factor (includes flatness)	40 ± 2 dB
Directivity typical minimum	35 dB 30 dB
Insertion Loss (max.)	0.15 dB
VSWR (main line)	1.1:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	WRD-350 N(F)/N(F)
Weight (max.)	1.24 kg 2.75 lb
Size (approx.) W x H x D	45.8 x 4.1 x 6.9 cm (18 x 1.61 x 2.72 in.)



Frequency Range	4 – 18 GHz
Power (max. W)	200 CW
Flatness (max.)	± 1.5 dB
Coupling Factor (includes flatness)	35 ± 2.5 dB
Directivity	
typical	16 dB
minimum	10 dB
Insertion Loss (max.)	0.6 dB
VSWR (main line)	1.5:1 max.
Connectors	
main line (J1/J2)	N(M)/N(F)
coupled (J3/J4)	SMA(F)/SMA(F)
Weight (max.)	0.34 kg
	0.85 lb
Size (approx.) W x H x D	
X 11 - 7	9.47 x 2.54 x 4.78 cm
	(3.73 x 1.0 x 1.88 in.)

Аметек		uct Catalog	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	113
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Accessories **Dual Directional Couplers** DC7490 DC7462 **DC7445** DC7450M1 8 - 12 GHz 12 - 18 GHz 6 - 18 GHz 7.5 - 18 GHz 3000 W 1400 W 3000 W 3000 W Mana portas 4.1 Gar de Jao mana 1.1 Gartin du La inu U.A. PRESURVEY RANGE 7.5002-10042 DOUPLING FRETOR 5000 PONCE 2000AUTS Binder DCN482 12 - 10 cpm; Binder, helto Nr. Availat 137 - Stade Dr.U.B.A. Frequency Range 7.5 – 18 GHz 12 – 18 GHz **Frequency Range** 8 – 12 GHz Frequency Range 6 – 18 GHz Frequency Range Power (max. W) 3000 CW Power (max. W) 3000 CW Power (max. W) 1400 CW 3000 CW Power (max. W) ± 1.5 dB ± 1.5 dB ± 1.5 dB Flatness (max.) Flatness (max.) Flatness (max.) ±3dB Flatness (max.) $50 \pm 2 \, dB$ $40 \pm 2 \, dB$ Coupling Factor (includes flatness) Coupling Factor (includes flatness) $40 \pm 2 \, dB$ Coupling Factor (includes flatness) Coupling Factor (includes flatness) $48 \text{ dB} \pm 4 \text{ dB}$ Directivity Directivity Directivity Directivity 28 dB 40 dB typical typical typical 30 dB typical minimum 25 dB minimum 35 dB minimum 20 dB minimum Insertion Loss (max.) 0.15 dB Insertion Loss (max.) 0.14 dB Insertion Loss (max.) 0.15 dB Insertion Loss (max.) 0.3 dB max. VSWR (main line) 1.1:1 max. 1.1:1 max. VSWR (main line) 1.1:1 max. VSWR (main line) 1.3:1 max. VSWR (main line) Connectors Connectors Connectors Connectors main line (J1/J2) WR90 main line (J1/J2) WRD-750 D24 main line (J1/J2) WRD-650 main line (J1/J2) coupled (J3/J4) N(F)/N(F)coupled (J3/J4) N(F)/N(F)coupled (J3/J4) N(F)/N(F)coupled (J3/J4) N(F)/N(F)Weight (max.) 0.45 ka 0.17 kg Weight (max.) Weight (max.) 0.64 kg Weight (max.) 0.64 ka 1 lb. 0.38 lb. 1.42 lb. 1.4 lb. 33 x 2.54 x 8.43 cm Size (approx.) W x H x D Size (approx.) W x H x D 30.5 x 3.5 x 4.4 cm Size (approx.) W x H x D Size (approx.) W x H x D 30.5 x 2.9 x 3.5 cm

30 dB

25 dB

WR62

28 x 1.8 x 7.6 cm

(11 x 0.7 x 3 in.)

Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	s	114
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

(12 x 1.4 x 1.7 in.)

(12 x 1.13 x 1.4 in.)

(13 x 1 x 3.32 in.)

Dual Directional Couplers

DC7530 18 - 26.5 GHz 300 W



18 – 26.5 GHz
300 CW
±1dE
40 dB ± 2 dB
40 dB
30 dE
0.20 dB max
1.10:1 max
WR42
K(F)/K(F)
204 g
7.2 oz
22.9 x 2.2 x 3.5 cm
(9 x 0.88 x 1.4 in.)

DC7620 26.5 – 40 GHz 200 W



Frequency Range	26.5 – 40 GHz
Power (max. W)	200 CW
Flatness (max.)	± 1 dB
Coupling Factor (includes flatness)	40 ± 2 dB
Directivity	00 JD
typical minimum	28 dB 23 dB
Insertion Loss (max.)	0.26 dB max.
VSWR (main line)	1.15:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	WR28 K(F)/K(F)
Weight (max.)	113 g 4 oz.
Size (approx.) W x H x D	14 x 3.5 x 1.9 cm (5.5 x 1.4 x 0.75 in.)

DC7820 33 - 50 GHz 200 W



Frequency Range	33 – 50 GHz
Power (max. W)	200 CW
Flatness (max.)	±1dB
Coupling Factor (includes flatness)	40 ± 2 dB
Directivity typical minimum	32 dB 30 dB
Insertion Loss (max.)	0.15 dB max
VSWR (main line)	1.10:1 max.
Connectors main line (J1/J2) coupled (J3/J4)	WR-22 2.4 mm (F) / 2.4 mm (F)
Weight (max.)	453 g 1 lb.
Size (approx.) W x H x D	15.24 x 3.3 x 3.3 cm (6 x 1.3 x 1.3 in.)



Load Attenuators

LA100



Frequency Range	DC –18 GHz
Power (max.)	100 W continuous to 25°C
Attenuation	40 dB, ±1.0 dB
Input VSWR (max.)	1.25:1 (DC – 8 GHz) 1.35:1 (8 - 12.4 GHz) 1.45:1 (12.4 - 18 GHz)
Connectors Input Output	N(M) N(F)
Ambient Temperature Range	–55°C to 125°C
Operating Position	Horizontal Only
Weight (max.)	320 g 11 OZ
Size (approx.) W x H x D	21.8 x 4.2 x 4.2 cm (8.6 x 1.62 x 1.62 in.)





Frequency Range	DC – 6 GHz
Power (max.)	150 W continuous to 25°C
Attenuation	40 dB, ±2.0 dB
Input VSWR (max.)	1.1:1 (DC – 2 GHz) 1.2:1 (2 – 6 GHz)
Output VSWR (max.)	1.20:1
Connectors Input Output	N(M) N(F)
Ambient Temperature Range	–55°C to 125°C
Operating Position	Horizontal Only
Weight (max.)	1.13 kg 2.5 lb.
Size (approx.) W x H x D	80 x 80 x 137.1 mm (3.15 x 3.15 x 5.4 in.)

LA500



Frequency Range	DC – 5 GHz
Power (max.)	500 W continuous to 25°C
Attenuation	40 dB ±1.0 dB (DC - 2.5 GHz) 40 dB +0.5/-3 dB (2.5 - 5 GHz)
Input VSWR (max.)	1.15:1 (DC – 2.5 GHz) 1.35:1 (2.5 – 5 GHz)
Output VSWR (max.)	1.15:1 (DC – 2.5 GHz) 1.25:1 (2.5 – 5 GHz)
Connectors Input Output	N(M) N(F)
Ambient Temperature Range	–55°C to 125°C
Operating Position	Horizontal Only
Weight (max.)	3.63 kg 8 lb.
Size (approx.) W x H x D	138.7 x 109.5 x 259.6 mm (5.46 x 4.31 x 10.22 in.)

LA1000



DC – 3 GHz
1000 W continuous to 25°C
40 dB ± 0.75 dB (DC - 1.5 GHz) 40 dB +1.5/-0.5 dB (1.5 - 3 GHz)
1.15:1 (DC –1.5 GHz) 1.25:1 (1.5 – 3 GHz)
1.15:1 (DC – 1.5 GHz) 1.25:1 (1.5 – 3 GHz)
N(F) N(F)
–55°C to 125°C
Horizontal Only
13.15 kg/29 lb.
178 x 332 x 451 mm 7.00 x 13.1 x 17.76 in

		Product Catalog 2024 For Sales, call: 215.723.8181 For an Applications Engineer, call: 800.933.8181 arworld.us					S	116		
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Field Monitoring

FL8200/Kit 5 kHz – 200 MHz



Frequency Range	5 kHz – 200 MHz
Axis Type	Separable X–Y–Z Axis
Field Strength Range (Single Range)	0.3 – 500 V/m
Measurement Type	CW, AM & Pulse
Dynamic Range	> 64 dB
Analog Rise Time (10 – 90% Typical)	300 us
Isotropic Deviation (Measured at Ortho Angle)	1
	±0.5 dB @ 10 MHz
Resolution	< 0.1 dB
CW Damage Level	1000 V/m
Pulse Damage Level	5 kV/m (> 0.1% Duty)
Linearity Error ±0.5 dB or ±0.3 V/r	m (Whichever is greater)
Temperature Stabiliy (Over Operating Temper	ature Range)
±C	1 dB (Detection Circuit)
±0.	5 dB (Complete System)
Weight	150 g (5.3 oz)
Dimensions (W x H x D)	

42.3 x 52.4 x 52.4 mm (1.66 x 26 x 26 in) 29.2 mm (1.15 in) Spherical housing diameter 16.5 mm (0.65 in) Sensor radome height per axis

FL8009/Kit 20 MHz - 9.3 GHz



Frequency Range		20 MHz – 9.3 GHz		
Axis Type		Separable X–Y–Z Axis		
Field Strength Range	(Single Range)	0.5 – 800 V/m		
Measurement Type		CW, AM & Pulse		
Dynamic Range		> 64 dB		
Analog Rise Time (10) – 90% Typical)	300 ns		
Isotropic Deviation(N	leasured at Ortho Ar	ngle)		
		±0.5 dB @ 100 MHz		
Resolution		< 0.1 dB		
CW Damage Level		1000 V/m		
Pulse Damage Level		5 kV/m (> 0.1% Duty)		
Linearity Error		m (Whichever is greater) 2 dB 20 MHz – 80 MHz)		
Temperature Stabiliy	±C	nperature Range)).1 dB (Detection Circuit) 5 dB (Complete System)		
Weight		150 g (5.3 oz)		
Dimensions (W x H x	,	mm (1.66 x 26 x 26 in)		

29.2 mm (1.15 in) Spherical housing diameter 16.5 mm (0.65 in) Sensor radome height per axis

FL8018/Kit 20 MHz - 18 GHz



Frequency Range	20 MHz – 18 GHz
Axis Type	Separable X–Y–Z Axis
Field Strength Range (Single Rang	e) 2 – 1000 V/m
Measurement Type	CW, AM & Pulse
Dynamic Range	> 54 dB
Analog Rise Time (10 – 90% Typic 600 – 2	al) 400 ns (amplitude dependent)
Isotropic Deviation(Measured at O	0,
	±0.5 dB @ 100 MHz
Resolution	< 0.1 dB
CW Damage Level	1200 V/m
Pulse Damage Level	6 kV/m (> 0.1% Duty)
Linearity Error ±0.5 dB or ±	0.5 V/m (whichever is greater)
Temperature Stabiliy (Over Operat	ing Temperature Range) ±0.5 dB
Weight	227 g (8 oz)
Dimensions (W x H x D) 278 x 65 65 mm	x 65 mm (10.9 x 2.6 x 2.6 in) (2.6 in) Sensor head diameter

FL8040/Kit 20 MHz - 40 GHz



Frequency Range	20 MHz – 40 GHz
Axis Type	Separable X–Y–Z Axis
Field Strength Range (Single Rang	e) 2 – 1000 V/m
Measurement Type	CW, AM & Pulse
Dynamic Range	> 54 dB
Analog Rise Time (10 – 90% Typic 600 -	al) · 2400 ns (amplitude dependent)
Isotropic Deviation(Measured at O	rtho Angle)
	±0.5 dB @ 100 MHz
Resolution	< 0.1 dB
CW Damage Level	1200 V/m
Pulse Damage Level	6 kV/m (> 0.1% Duty)
Linearity Error ±0.5 dB o	r ±0.5 V/m (whichever is greater)
Temperature Stabiliy (Over Operat	ing Temperature Range)
	±0.5 dB
Weight	227 g (8 oz)
Dimensions (W x H x D) 278 x 65 65 m	x 65 mm (10.9 x 2.6 x 2.6 in) m (2.6 in) Sensor head diameter

	Produ	uct Catalog 2	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 arworld.u	S	117
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Export Classification:

Field Monitoring

FL8060/Kit 20 MHz - 60 GHz



Frequency Range	20 MHz – 60 GH				
Axis Type	Separable X–Y–Z Axi				
Field Strength Range (Single Range) 2 - 1000					
Measurement Type	CW, AM & Puls				
Dynamic Range	> 54 d				
Analog Rise Time (10 –	90% Typical) 600 – 2400 ns (amplitude dependent				
Isotropic Deviation(Mea	sured at Ortho Angle) ±0.5 dB @ 100 MH				
Resolution	< 0.1 d				
CW Damage Level	1200 V/r				
Pulse Damage Level	6 kV/m (> 0.1% Duty				
Linearity Error ±0.5 dB or ±0.5 V/m (whichever is great					
Temperature Stabiliy (O	ver Operating Temperature Range) ±0.5 d				
Weight	227 g (8 oz				
Dimensions (W x H x D)	278 x 65 x 65 mm (10.9 x 2.6 x 2.6 i 65 mm (2.6 in) Sensor head diamet				

Contents

FM7004A



Inputs: Up	to 4 independent probes, through 4 fiber optic FSMA pairs.
Output:	
	Graphical, color LCD touch display
	IEEE–488 (GPIB)
	USB 2 (test and measurement class)
	RS-232
	Ethernet
Compatible Field Prol	bes All 7000 and 8000 Series field probes
Power Requirements:	
Input voltage	Universal input 90 – 260 VAC, 50–60 Hz
Input current	0.2 – 0.6 Amps
Input type	IEC C14 Inlet with filter
Fuse	1A, 5x20 mm slow blow
Operating Temperatur	e Range: 10°–40°C (50°–104° F) @
	5 – 95% RH noncondensing
Enclosure	Desktop case, 2U high
	es Stores up to 6 different tables (each table one probe); 2 to 30 frequency points per table
Weight	without enclosure 2.3 kg (5 lb)
-	with enclosure 6.7 kg (14.75 lb)
Size (W x H x D)	without enclosure 48.3 x 9 x 25.4 cm
	(9 x 3.5 x 10 in)
	with enclosure 49.8 x 12.7 x 30.5 cm
	(19.6 x 5 x 12 in)

FI8000



	2.0 Test and Measurement Class				
D0 000 (10000 D I)	et, USB 2.0 Test and Measurement Class				
RS-232 (19200 Baud),	Fiber-Optic Serial (19200 Baud)				
F/O Connector Type	E-2000 Compact Duplex				
Application Software	VM7000, emcware				
Laser					
Wavelength	808 nm				
Maximum Output Power	2000 mW				
Class	1				
Shutdown Time	<1 ms After fiber disconnect				
<250	ms After loss of communication				
Power Requirements					
Input Voltage	90 – 260 VAC, 50 – 60 Hz				
Input Current	0.2 – 0.6 A				
Connector Type	IEC C14 Inlet with filter				
Ambient Temperature	10° - 40° C				
Enclosure 2U Desktop Ca	se with 1U Blank panel installed				
Weight	2.3 kg (5 lb) without enclosure				
·	6.8 kg (15 lb) with enclosure				
Dimensions (W x H x D)	48.3 x 4.4 x 26.9 cm (19 x				
1.7	72 x 10.60 in) without enclosure				
50.4 x 11.6 x 30.5 cm (19.84					

118

Contact

Аметек		uct Catalog 3	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.818	31 arworld.us	s	
ents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	

EAR99

Power Heads / Power Meters

PH2000A 10 kHz – 8 GHz



Frequency Range	10 kHz – 8 GHz			
Dynamic Range	-60 to +20 dBm			
Overload Rating (CW Power)	300 mW			
Overload Rating (Peak Power)	1 W for 1 µS			
SWR (max.)	10 kHz - 2 GHz, 1.12:1 2 GHz - 4 GHz, 1.20:1 4 GHz - 8 GHz , 1.40:1			
Noise (RMS)	80 pW			
RF Input	N(M), 50 ohm			

PH2005 500 kHz – 18 GHz



Frequency Range	500 kHz – 18 GHz
Dynamic Range	-70 to +20 dBm
Overload Rating (CW Power)	300 mW
Overload Rating (Peak Power)	1 W for 1 μS
SWR (max.)	500 kHz - 2 GHz, 1.15:1 2 GHz - 6 GHz, 1.20:1 6 GHz - 18 GHz, 1.40:1
Noise (RMS)	30 pW
RF Input	N(M), 50 ohm

PH2010 30 MHz - 40 GHz



Frequency Range	30 MHz – 40 GHz
Dynamic Range	-70 to +20 dBm
Overload Rating (CW Power)	300 mW
Overload Rating (Peak Power)	1 W for 1 μS
SWR (max.)	30 MHz - 4 GHz, 1.25:1 4 GHz - 38 GHz, 1.65:1 38 GHz - 40 GHz, 2.00:1
Noise (RMS)	30 pW
RF Input	K(M), 50 ohm

PM2003 10 kHz - 40 GHz



Frequency Range:	10 kHz – 40 GHz, power head dependen
Power Range:	-70 dBm to +44 dBm, powerhead dependent
Number of Channels	Three (2 simultaneously viewable)
Measurement Speed	: 1 channel: 200 Readings/Sec 2 channels: 100 Readings/Sec
Dynamic Range:	Up to 90 dB with diode heads, 50 dB with thermocouple heads
Display Units:	Absolute, watts and dBm. Relative, dB
Display Resolution:	5 digits, nW, μW , mW and W; 4 digits dBm
Instrumentation Accu	racy: 0.23% of full scale. 0.46% of 1/10 full scale
Inputs:	Rear panel HEAD connectors and rear panel IEEE–488 connector standard
•	ear panel PWR/REF connector, 0 dBm, 50 MHz ECORDER BNC connector, 0 to 10 V into 1 $M\Omega$

119 Product Catalog | 2024 For Sales, call: 215.723.8181 For an Applications Engineer, call: 800.933.8181 arworld.us AMETER Contents **Find it Fast RF Solid State Universal Series** Solid State Pulse TWT Contact Microwave **Systems** Antennas Accessories

PSP102 4 kHz – 6 GHz

Frequency Range:	4 kHz - 6 GHz
Average Dynamic Range:	-60 to +20 dBm
Pulse Dynamic Range:	-45 to +20 dBm
Internal Trigger Range:	-40 to +20 dBm
Risetime (fast/standard)	2 µs / 1 ms
Maximum Input Power	200 mW or, 1 W for 1µs
VSWR (max.)	0.01 - 2.0 GHz, 1.15:1 2.0 - 6.0 GHz, 1.20:1
RF Input	N(M), 50 ohm



Sampling Techniques:	Real-time/Equivalent time
Continuous sample rate:	25 MHz
Effective sample rate:	1 GHz
Time resolution:	1 ns
Trigger source:	internal or external TTL
External Trigger in/out:	TTL in (slave) or out (master)
Minimum Trigger Width:	4 us
Maximum Trigger Freque	ncy: 120 kHz
Trace Acquisition Speed:	> 30 k sweeps/second
Measurement Speed:	100 k meas/sec (buffered mode) Over USB 1000 meas/sec (continuous)
Remote Connectivity:	USB 2, type B connector
Size (LxWxH):	145 x 43 x 43 mm (5.6 x 1.7 x 1.7 in.)
Power Consumption:	2 W, (USB high power device)

		uct Catalog 3	2024 For Sale	es, call: 215.723.81	81 For an Ar	oplications Engine	er, call: 800.933.81	81 arworld.u	s	120
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact



TP1000B

Load Capacity:	27.2 kg (60 lbs)			
Maximum Height (Approx.):	137 cm (53.9 in)			
Maximum Height With Longer Mast (approximate):				
	203 cm (80 in)			
Minimum Height (Approx.):	89 cm (34.9 in)			
Mast Travel:	(24" MAST) 48.3 cm (19 in)			
	(51" MAST) 45.7 cm (18 in)			
(19″ MA	ST, TP1000BM4) 37.3 cm (14.7 in)			
Tilt Angle:	0–90°			
Pan Rotation:	360°			
Instrument Mounting Screw:	1/4 in. x 20			
Material:	PVC, ABS, nylon			
Weight:	9.7 kg (20.5 lbs)			
Export Classification:	EAR99			



Load Capacity:	10 kg (22 lb.)
Maximum Height (Approx.):	175 cm (69 in.)
Minimum Height (Approx.):	53 cm (21 in.)
Column Travel:	45 cm (18 in.)
Pan Rotation:	360°
Instrument Mounting Screw:	1/4 in. x 20
Material:	Wood
Weight:	2.6 kg (5.7 lb.)
Export Classification:	EAR99

AP5010B



Load Capacity: 45.36 kg (10			
Maximum Height (Approx.): 3.31 m (1			
Minimum He	ight (Approx.):	2.07 m (81.69 in)	
Base Leg:	1.53 m (60.42	in); extends to 2.04 m (80.19 in)	
Tilt Angle:		0–30°	
Material:		Fiberglas, PVC, Delrin, Nylatron	
Weight:		45 kg (98 lbs)	
Export Classi	t Classification: EAR		

Visit us online to view additional model options and our antenna mounting adapters.

Аметек		uct Catalog	2024 For Sal	es, call: 215.723.81	81 For an Ap	oplications Engine	er, call: 800.933.81	81 <mark>arworld.u</mark>	S	121
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

Software

emcware®

Features

The emcware® Suite by AR RF/Microwave Instrumentation provides automated Electromagnetic Compatibility (EMC) testing and report generation for all types of users from corporate to professional test laboratories. It is a standalone software application designed to operate on a PC running a Microsoft WindowsTM operating system. The export classification for this software is EAR99. This software is controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

Software Design

The emcware® Suite is designed to be user friendly yet extremely flexible. It is broken up into modules based on different types of EMC testing. Within each module there are predefined standards. The ability to create custom test standards is also provided.

Equipment Management

Contained within the emcware® is a built-in Equipment List Manager. This tool allows for equipment to be entered one time and then accessed from within any of the modules. The Equipment List Manager also keeps track of calibration dates and can warn the user when the calibration date of a specific piece of equipment is approaching.

EUT Monitoring

Use custom equipment or a National Instruments DAQ card to monitor and report the status of the equipment under test (EUT). The National Instruments DAQ device can monitor Analog or Digital levels from the EUT or reset the EUT using the Digital Outputs. Custom equipment, in conjunction with dynamic link library (DLL) files, allows for complete EUT monitoring and control.

Instrument Drivers

Instrument control is provided through AR RF/ Microwave Instrumentation's extensive driver library. Creation of new drivers for equipment that is not currently supported is available upon request. Drivers can also be created and imported by the user in the form of dynamic link libraries (dll) files.

Signal Routing

The emcware® is designed to allow the user to select between manual and automatic signal routing. Automatic signal routing is implemented using one or more AR RF/Microwave Instrumentation Model SC2000 System Controllers.

Reports

Extensive report generation capability is built into each module. These reports can be customized by the user. All reports are created in Microsoft Word or Microsoft Excel.

Help Instructions

A detailed help utility is included with the emcware. The contents of the help instructions can be searched by keyword or topic. Open the help file using the context-sensitive help buttons located throughout the user interface.

Licensing

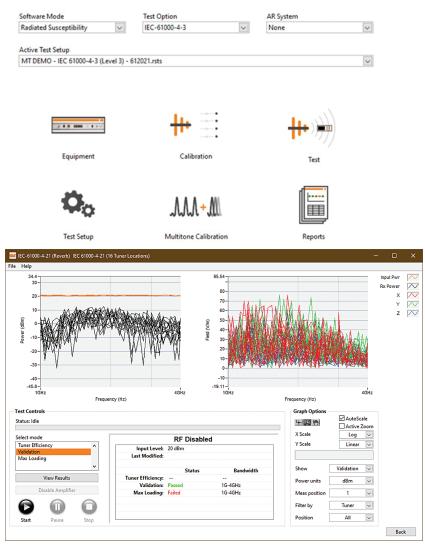
The emcware® is conveniently licensed using a USB hardware dongle that enables full functionality of the software for a single PC.

AR Systems Compatibility

The emcware® can automatically control select AR Systems using built-in equipment setups. See the Compatible Systems for a complete list.

INCLUDED TEST STANDAR	RDS, emcware®		
Organization	Standard		
	CISPR 11		
	CISPR 13		
CISPR	CISPR 22		
	CISPR 25		
	CISPR 32		
-	MIL-STD-461 RS103		
	MIL-STD-461 RS103 (Reverb)		
Department of Defense	MIL-STD-461 CS114		
-	MIL-STD-461 RE(101, 102)		
	MIL-STD-461 CE (101, 102)		
RTCA	DO-160 Section 20 DO-160 Section 20.6 (Reverb)		
	DO-160 Section 21		
	61000-4-3		
	61000-4-6		
	61000-4-21		
IEC	50130-4		
IEC	60601-1-2		
	61000-6-1		
	61326		
	61000-6-2		
Telcordia Technologies	GR-1089-Core		
International Organiza-	ISO-11452-(2, 3, 5)		
tion for Standards			
	ISO-11452-4		
Ford			
Ford GM	ISO-11452-4		
	ISO-11452-4 ES-XW7T-1A278-AC		
GM	ISO-11452-4 ES-XW7T-1A278-AC GMW3097		
GM BMW	ISO-11452-4 ES-XW7T-1A278-AC GMW3097 GS 95002		

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Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

RF Test System Controllers / Shielded Enclosure Leak Detectors

SC Switch Control Platform SC2000, SCX2000 and SCP2000



Rated Voltage	100 – 240 V AC
Rated Frequency	50 – 60 Hz
Rated Power	100 VA max
Dimensions W x H x D	48.26 x 13.34 x 44.77 cm (19 x 5.25 x 17.625 in)
Weight	
SC2000 (without modules)	approx. 4.1 kg (9 lbs)
SCX2000 (without modules)	approx. 3.9 kg (8.5 lbs)
SCP2000 (with modules)	approx. 6.8 kg (15 lbs)
Module Slots	
Number of module slots	5 on rear of unit
Number of control buses for modules	5
RF Switch Power Handling	See Spec Sheet
Block Diagram	See Spec Sheet

Shielded Enclosure Leak Detector System CL-105A and CL-106A

The CL-105A/CL-106A Shielded Enclosure Leak Detection System (SELDS) provides a convenient means of testing the electromagnetic shielding effectiveness of EMI enclosures by looking at the most likely points of degradation – the seams, doors, and filter connections. The system consists of a Model CL-105A Transmitter, Model CL-106A Receiver, headphones and a rugged carrying case. The incredible sensitivity of the model CL-105A Receiver allows it to meet the most riaid MIL standards

(e.g. MIL-STD-188/125) for shielded room acceptance.

This system is designed to make relative shielding effectiveness measurements by passing a current along the surface of an EMI

enclosure in order to sense the small magnetic fields formed

The Model CL-105A Transmitter is used to generate an output

signal which is connected to the EMI enclosure under test. This

device has an auto-adjusting output that works with small, medium, and large EMI enclosures. An LED indicator illuminates areen when the Transmitter has adjusted the output to the

The Model CL-106A Receiver has high sensitivity to detect the smallest of magnetic fields produced at breaks in the EMI

enclosure under test. This unit auto-zeros and features an auditory output with varving amplitude related to the shielding

speaker or included headphones. A 4-diait seven seament

display is provided to indicate relative shielding effectiveness measurement values in dB. In addition, a built-in LED light source provides illumination when used in dark environments.

effectiveness. The auditory output is available through the built-in

where breaks in the EMI enclosure may occur.

optimum level for the connected EMI enclosure.



System Interlock SI1000



Wired Interlock, Remote Out, and Relay Connections Molex receptacle, 3–pin, 0.093 in. DIA terminals Mating 3 -pin plug connector and terminals supplied

Power Requirements					
	Compatible with FC2000 Series Cables				
Fiber Optic Connectors	(2) FSMA for fiber connection				

Dimensions (WxHxD)	48.3 x 4.5 x 17.8 cm (19 x 1.75 x 7 in.)
Enclosure	Rack mount case, 1U high
Input type	IEC inlet with filter
Input Current	0.2–0.6 Å
Input Voltage	90–260 VAC, 50–60 Hz
Power Requirements	

Weight

Operating Temperature Range

10°C to 40°C (50°F to 104°F) @ 5% to 95% RH non-condensing

2.5 kg (6.25 lb.)

Аметек		uct Catalog	2024 For Sales, call: 215.723.8181 For an		181 For an Ap	or an Applications Engineer, call: 800.933.8181 arworld.us			S	123
Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

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+33 1479 175 30

+49 6101 802700

+30 210 6858008

+45 30 38 23 82

+36 24 521 240

+45 30 38 23 82

+91 (80) 41683883

PTE, Ltd. Singapore

+ 65 6 2734573

+353 8722 89801

+972 3 9008900

+972 54 3181903

DELO Instruments

+39 029 072 2441

Nippon Automatic

Control Company

EMC Solutions, Inc.

+82 70 7805 5100

Trading Company

+81 3 5434 1600

Korea (South)

Iceland

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Albania **AR** Europe +353 61 50 4300 Argentina

Instrumental Tech +54 911 33954300 Australia

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Trading Company +966 11 4160110 Belarus

Radiant-Elcom +7495 725 0404 Belgium

AR Benelux B.V. +31 1724 23000 Brazil **Boreal Communications**

+55 (19) 3258-2210 Bulgaria **Test Solutions** +359 2 970 19 90

Canada (Except BC) **TMetrix** (905) 502 2005

Canada, British Columbia ACA TMetrix Inc. 800-665-7301

Central America SI-EMC +52 (55) 2163 2148 +52 55 2163 2979

Chile **Boreal Communications** +55 (19) 3258-2210

China **YiFena Tech** +86 10 6788 6078

Croatia **AR Europe** +353 61 50 4300

Cyprus Vector Technologies Ltd +30 210 6858008

Czech Republic Tectra +420 281921650

Denmark Altoo Measurement Science ApS +45 30 38 23 82

+971 2 6222 341 Latvia SIA "SKAILOKS" +371 26599887

Lithuania **UAB "LOKMIS"** +370 5215 1895

Luxembourg AR Benelux B.V. +31 1724 23000

Malaysia **Precision Technologies** PTE, Ltd. Singapore + 65 6 2734573

Macedonia **Test Solutions** +359 2 970 19 90

Montenegro Test Solutions +359 2 970 19 90

Mexico

SI-EMC

Malta

Moldova

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Netherlands

AR Benelux B.V.

+31 1724 23000

Scientific Devices

+61 3 9569 1366

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TELEC Electronics &

Machinery Ltd.

Philippines

Poland

Portugal

INYCŎM

Romania

COMTEST SRL

+402 1211 0883

+92 (21) 5217201

PTE, Ltd. Singapore + 65 6 2734573

ASTAT sp. z o.o.

+48 61 435 95 12

New Zealand

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Oman

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DELO Instruments

+39 029 072 2441

+420 281921650 Slovenia **AR Europe** +52 55 2163 2148 +353 61 50 4300 +52 55 2163 2979

> South Africa Protea Electronics Pty Ltd +27 117195791

South America **Boreal Communications** +55 (19) 3258 2210 +373 22 92 02 33

Russia

Serbia

Radiant-Elcom

+7495 725 0404

Trading Company +966 11 4160110

+359 2 970 19 90

PTE, Ltd. Singapore

+ 65 6 2734573

Precision Technologies

Saudi Arabia

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Spain Montenegro INYCOM Test Solutions +34 976 013300 +359 2 970 19 90

> Sweden Testhouse Sweden +46 706 293661

Switzerland Emitec Messtechnik AG +41 417486010

Taiwan Evergo Microwave Inc. +886 2 2601 9679

Thailand **Precision** Technologies Motabagah PTE, Ltd. Singapore + 65 6 2734573 Trading Company +971 2 6222 341

Turkey ORKO Mumessillik +90 3124382213

Ukraine **AR Europe** +353 61 50 4300

Precision Technologies **United Arab Emirates** Motabagah Trading Company

+971 2 6222 341 United Kingdom AR United Kingdom Ltd. +44 1908 282 766

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2024

Universal Series

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Antennas

139

Contents

Solid State Pulse Microwave

TWT

Systems

Accessories

Contact

Contact Service

We believe local after sales support and service are essential, and we strive to provide the best service possible.

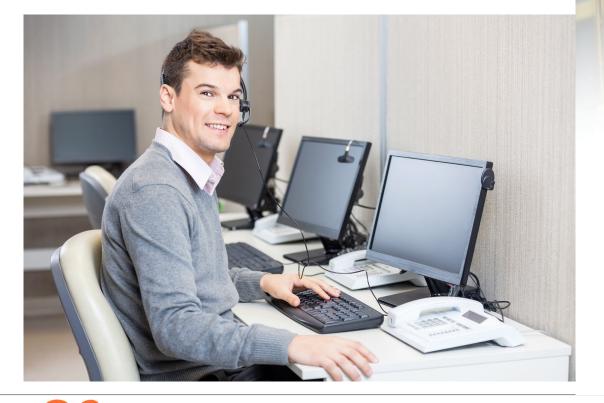
Our highly trained technicians maintain equipment so that even older or rebuilt AR products continue to perform the same as they did on Day 1. There are rebuilt AR amplifiers over 20 years old that are still going strong and delivering precision results.

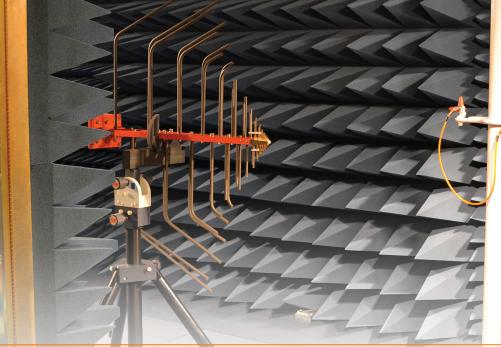
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We set a new standard when introducing our three-year warranty (one-year warranty for TWTs and powerheads). It's easy to stand behind your products when their quality is unsurpassed. Making sure that AR products exceed your expectations is our goal. We do whatever it takes to achieve that.

In the US, contact AR's Customer Service Department at 215.723.0275 or service@arworld.us. Outside of the US, contact the AR distributor nearest you.





	Basic Warranty	Assured	Enhanced	Performance
Technical Support (HW and SW)				
Email / Phone Case Response Time	24 hrs.	8 hrs	4 hrs	2 hrs
24 x 5 Technical Support				~
On-Site Post-Sales Support				4
Hardware Support				
Repair Service Coverage Turnaround Time	15 business days	14 business days	10 business days	7 business days
Calibration Service Turnaround Time	15 business days	10 business days	5 business days	3 business days
Firmware Release and Updates	~	✓	✓	~
Spare Parts/Consignment Inventory			optional	✓
Product Maintenance	optional	optional	optional	optional
Software Support				
Updates and Maintenance Releases	~	~	✓	~
Proactive Release Notification	~	✓ ✓		~
Success Services				
Customer Success Manager–Advocate, Escalation Point			~	~
Onboarding and Support Performance Metrics Report		√ Annual	✔ Bi–Annual	√ Quarterly

Response time based on AR standard business hours and hardware support turnaround time excludes component lead time.
 AR Software Agreement required for software support.

3. All the offered services are subject to availability of capabilities in country and legal terms and conditions.

4. Contact your local AR sales representative for more information.

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Contents	Find it Fast	RF Solid State	Universal Series	Microwave	Solid State Pulse	тwт	Systems	Antennas	Accessories	Contact

AR's Competitive Edge

At AR, there's no substitute for customer responsiveness. It's the foundation of our business and the AR value that's recognized around the globe. It's one of the key reasons AR has become the worldwide leader in EMC, wireless and beyond.

AR products do more, last longer, work harder, and make your job easier. And that gives you a fierce competitive edge. Only AR delivers innovative technology, advanced design, quality build and workmanship, mismatch capability, durability and longevity, less cost per watt, and a worldwide support network that's here for you today and tomorrow. With the combined resources of all the AR companies, we simply have more of the best people making the products to overcome your toughest challenges.

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